

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM S-8

REGISTRATION STATEMENT UNDER THE
SECURITIES ACT OF 1933

BRUSH ENGINEERED MATERIALS INC.

(Exact Name of Registrant as Specified in Its Charter)

OHIO
(State or Other Jurisdiction
Identification No.)

34-1919973
(I.R.S. Employer
of Incorporation or Organization)

17876 St. Clair Avenue, Cleveland, Ohio 44110
(Address of Principal Executive Offices Including Zip Code)

BRUSH ENGINEERED MATERIALS INC. SAVINGS AND INVESTMENT PLAN
(Full Title of the Plan)

Michael C. Hasychak
Vice President, Secretary and Treasurer
Brush Engineered Materials Inc.
17876 St. Clair Avenue
Cleveland, Ohio 44110
(Name and Address of Agent For Service)

(216) 486-4200
(Telephone Number, Including Area Code, of Agent For Service)

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered (1)	Proposed Maximum Offering Price Per Share (2)	Proposed Maximum Aggregate Offering Price (2)	Amount of Registration Fee
Common Stock, no par value (2)	3,000,000	\$16.50	\$49,500,000	\$5,826.15

- (1) In addition, pursuant to Rule 416(c) under the Securities Act of 1933 (the "Securities Act"), this Registration Statement also covers an indeterminate amount of interests to be offered or sold pursuant to the employee benefit plan described herein.
- (2) Estimated solely for the purpose of calculating the registration fee, based in accordance with Rule 457(h) under the Securities Act, on the average of the high and low prices as reported on the New York Stock Exchange on July 28, 2005, within five business days prior to filing.
- (3) Each common share includes an associated right ("Right") to purchase Series A Junior Participating Preferred Stock of Brush Engineered Materials Inc. The terms of the Rights are described in the Form 8-A filed by the Registrant on May 16, 2000, as amended by the Form 8-812B/A filed by the Registrant on December 13, 2004.

This Registration Statement is filed pursuant to General Instruction E of Form S-8 for the purpose of registering 3,000,000 additional shares of common stock, no par value (the "Common Stock"), of Brush Engineered Materials Inc., an Ohio corporation (the "Registrant"), issuable pursuant to the Brush Engineered Materials Inc. Savings and Investment Plan (the "Plan"). The Registrant's previously filed Registration Statements on Forms S-4 and S-8 (Nos. 333-95917 and 333-88994) as filed with the Securities and Exchange Commission on February 1, 2000

and May 24, 2002, respectively, are hereby incorporated herein by reference.

PART I
INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

The documents containing the information specified in Part I of the General Instructions to the Registration Statement on Form S-8 have been sent or given to employees of the Registrant who participate in the Plan as required by Rule 428(b)(1) promulgated under the Securities Act.

PART II
INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

ITEM 3. INCORPORATION OF DOCUMENTS BY REFERENCE

The following documents, which are on file with the Securities and Exchange Commission, are incorporated herein by reference:

- (1) Annual Report on Form 10-K for the year ended December 31, 2004, filed by the Registrant on March 14, 2005.
- (2) Annual Report on 11-K for the year ended December 31, 2004, filed by the Registrant on June 29, 2005.
- (3) Quarterly Report on Form 10-Q for the quarter ended April 1, 2005, filed by the Registrant on May 5, 2005.
- (4) Current Reports on Form 8-K filed by the Registrant on February 7, 2005, February 8, 2005, March 28, 2005, March 31, 2005, May 2, 2005 and May 5, 2005.
- (5) The description of the Registrant's common shares contained in the Registration Statement on Form S-4, filed by the Registrant on February 1, 2000, including any amendment or report filed for the purpose of updating that description.

All documents filed by the Corporation pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act subsequent to the date of this Registration Statement, prior to the filing of a post-effective amendment which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference in this Registration Statement and to be a part hereof from the date of filing of such documents. Any statement contained in this Registration Statement or in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or incorporated herein by reference or in any subsequently filed document which is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

ITEM 4. DESCRIPTION OF SECURITIES.

Not applicable.

ITEM 5. INTERESTS OF NAMED EXPERTS AND COUNSEL.

The legality of the Common Stock being offered by this Registration Statement has been passed upon for the Registrant by Thompson Hine LLP.

ITEM 6. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

The Registrant will indemnify, to the full extent then permitted by law, any director or officer or former director or officer of the Registrant who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he is or was a member of the

Registrant's Board of Directors or an officer, employee or agent, or is or was serving at the Registrant's request as a director, trustee, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise. The Registrant will pay, to the full extent then required by law, expenses, including attorney's fees, incurred by a member of the Board of Directors in defending any such action, suit or proceeding as they are incurred, in advance of the final disposition thereof.

To the full extent then permitted by law, the Registrant may indemnify employees, agents and other persons and may pay expenses, including attorney's fees, incurred by any employee, agent or other person in defending any action, suit or proceeding as such expenses are incurred, in advance of the final disposition thereof.

The indemnification and payment of expenses described above will not be exclusive of, and will be in addition to, any other rights granted to any person seeking indemnification under any law, the Registrant's amended and restated articles of incorporation, any agreement, vote of shareholders or disinterested members of the Board of Directors, or otherwise, both as to action in official capacities and as to action in another capacity while he or she is a member of the Board of Directors or an officer, employee or agent, and shall continue as to a person who has ceased to be a member of the Board of Directors, trustee, officer, employee or agent and shall inure to the benefit of the heirs, executors, and administrators of such a person.

The Registrant may, to the full extent then permitted by law and authorized by the Board of Directors, purchase and maintain insurance or furnish similar protection, including but not limited to trust funds, letters of credit or self-insurance, on behalf of or for any persons described above against any liability asserted against and incurred by any such person in any such capacity, or arising out of his status as such, whether or not the Registrant would have the power to indemnify such person against such liability. Insurance may be purchased from or maintained with a person in which we have a financial interest.

The Registrant, upon approval by the Board of Directors, may enter into agreements with any persons who it may indemnify under its amended and restated code of regulations or under law and may undertake thereby to indemnify such persons and to pay the expenses incurred by them in defending any action, suit or proceeding against them, whether or not we would have the power under law or its amended and restated code of regulations to indemnify any such person.

Under Ohio law, Ohio corporations are authorized to indemnify directors, officers, employees and agents within prescribed limits and must indemnify them under certain circumstances. Ohio law does not provide statutory authorization for a corporation to indemnify directors, officers, employees and agents for settlements, fines or judgments in the context of derivative suits. However, it provides that directors (but not officers, employees or agents) are entitled to mandatory advancement of expenses, including attorneys' fees, incurred in defending any action, including derivative actions, brought against the director, provided that the director agrees to cooperate with the corporation concerning the matter and to repay the amount advanced if it is proved by clear and convincing evidence that the director's act or failure to act was done with deliberate intent to cause injury to the corporation or with reckless disregard for the corporation's best interests.

Ohio law does not authorize payment of judgments to a director, officer, employee or agent after a finding of negligence or misconduct in a derivative suit absent a court order. Indemnification is permitted, however, to the extent such person succeeds on the merits. In all other cases, if a director, officer,

employee or agent acted in good faith and in a manner he reasonably believed to be in or not opposed to be the best interests of the corporation, indemnification is discretionary except as otherwise provided by a corporation's articles, code of regulations or by contract except with respect to the advancement of expenses of directors.

Under Ohio law, a director is not liable for monetary damages unless it is proved by clear and convincing evidence that his action or failure to act was undertaken with deliberate intent to cause injury to the corporation or with reckless disregard for the best interests of the corporation. There is, however, no comparable provision limiting the liability of officers, employees or agents of a corporation. The statutory right to indemnification is not exclusive in Ohio, and Ohio corporations may, among other things, procure insurance for such persons.

ITEM 7. EXEMPTION FROM REGISTRATION CLAIMED.

Not applicable.

ITEM 8. EXHIBITS.

The Exhibits to this Registration Statement are listed in the Exhibit Index on page 6 and are incorporated herein by reference.

Brush Engineered Materials Inc. has received a determination letter from the Internal Revenue Service dated July 25, 2002 that the Plan is a qualified plan under the Internal Revenue Code of 1986, as amended (the "Code"). The Corporation hereby undertakes to submit any amendments to the Plan to the Internal Revenue Service in a timely manner and will make all changes required under the Code to maintain the tax qualification of the Plan.

ITEM 9. UNDERTAKINGS.

(a) The undersigned Registrant hereby undertakes:

(1) to file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

- i. To include any prospectus required by Section 10(a)(3) of the Securities Act;
- ii. To reflect in the prospectus any facts or events arising after the effective date of the Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the Registration Statement; and
- iii. To include any material information with respect to the plan of distribution not previously disclosed in the Registration Statement or any material change to such information in the Registration Statement:

provided, however, that paragraphs (a) (1) (i) and (a) (1) (ii) do not apply if the registration statement is on Form S-3, Form S-8 or Form F-3, and the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Securities and Exchange Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in the Registration Statement.

(2) that, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

- (3) to remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
- (b) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (c) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit, or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8, and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cleveland, State of Ohio, on August 3, 2005.

BRUSH ENGINEERED MATERIALS INC.

By: /s/ Michael C. Hasychak

Michael C. Hasychak, Vice President, Secretary and Treasurer

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons in the capacities indicated and on August 3, 2005.

<u>Signature</u>	<u>Title</u>
* _____ Gordon D. Harnett	Chairman of the Board, Chief Executive Officer and Director (principal executive officer)
* _____ John D. Grampa	Vice President Finance and Chief Financial Officer (principal financial and accounting officer)
* _____ Albert C. Bersticker	Director
* _____ Joseph P. Keithley	Director
* _____ William B. Lawrence	Director
* _____ William P. Madar	Director
* _____ William G. Pryor	Director
* _____ N. Mohan Reddy Ph.D.	Director
* _____ William R. Robertson	Director
* _____ John Sherwin, Jr.	Director

* by Michael C. Hasychak, attorney-in-fact.

Pursuant to the requirements of the Securities Act, the administrator of the Brush Engineered Materials Inc. Savings and Investment Plan has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cleveland, State of Ohio on August 3, 2005.

BRUSH ENGINEERED MATERIALS INC. SAVINGS AND
INVESTMENT PLAN

By: /s/ Michael C. Hasychak

Vice President, Treasurer and Secretary for the
Administrator, Brush Engineered Materials Inc.

INDEX TO EXHIBITS

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>
4(a)	Amended and Restated Articles of Incorporation of Registrant (filed as Annex B to the Registration Statement on Form S-4 filed by the Registrant on February 1, 2000, Registration No. 333-95917, and incorporated herein by reference.)
4(b)	Amended and Restated Code of Regulations of Registrant.
4(c)	Rights Agreement, dated as of May 10, 2000, by and between Registrant and National City Bank, N.A. as Rights Agent.
4(d)	First Amendment to Rights Agreement, dated as of December 7, 2004, by and between Registrant and LaSalle Bank, N.A. as Rights Agent (filed as Exhibit 4.1 to the Current Report on Form 8-K filed by the Registrant on December 13, 2004, and incorporated herein by reference.)
5	Opinion of Thompson Hine LLP as to the legality of the securities being registered.
23	Consent of Ernst & Young LLP.
24	Power of Attorney for each officer and director of Brush Engineered Materials Inc. signing this Registration Statement through an attorney-in-fact.

AMENDED AND RESTATED CODE OF REGULATIONS
OF
BRUSH ENGINEERED MATERIALS INC.

Shareholder Meetings

1. Time And Place Of Meetings. All meetings of the shareholders for the election of directors or for any other purpose will be held at such time and place, within or without the State of Ohio, as may be designated by the Board of Directors or, in the absence of a designation by the Board of Directors, the Chairman of the Board of Directors, if any (the “Chairman”), the President, the Secretary or any other individual entitled to give notice pursuant to Regulation 4. The time of the meeting shall be stated in the notice of meeting. The Board of Director may postpone and reschedule any previously scheduled annual or special meeting of the shareholders.

2. Annual Meeting. An annual meeting of the shareholders will be held at such time and place as may be designated pursuant to Regulation 1, at which meeting the shareholders will elect directors to succeed those directors whose terms expire at such meeting and will transact such other business as may be brought properly before the meeting in accordance with Regulation 9. If the annual meeting is not held or if the number of directors elected thereat is not sufficient to replace the directors whose terms expire at that meeting and to fill all other vacancies, directors may be elected at a special meeting called for the purpose of electing directors.

3. Special Meetings. (a) Special meetings of shareholders may be called by the Chairman, by the President, by a Vice President, by a majority of the Board of Directors acting with or without a meeting or by any person or persons who hold not less than 50% of all the shares outstanding and entitled to be voted on any proposal to be submitted at the meeting to be called. Special meetings of the holders of shares that are entitled to call a special meeting by virtue of any Preferred Stock Designation may call such meetings in the manner and for the purposes provided in the applicable terms of such Preferred Stock Designation. For purposes of this Amended and Restated Code of Regulations, “Preferred Stock Designation” means the express terms of shares of any class or series of capital stock of the Corporation, whether now or hereafter issued, with rights to distributions senior to those of the Common Stock including, without limitation, any relative, participating, optional or other special rights and privileges of, and any qualifications or restrictions on, such shares.

(b) Upon written request by any person or persons entitled to call a meeting of shareholders delivered in person or by registered mail to the President or the Secretary, such officer shall forthwith cause notice of the meeting to be given to the shareholders entitled to notice of such meeting in accordance with Regulation 4. If such notice shall not be given within 60 days after the delivery or mailing of such request, the person or persons requesting the meeting may fix the time of the meeting and give, or cause to be given, notice in the manner provided in Regulation 4.

4. Notice Of Meetings. Written notice of every meeting of the shareholders called in accordance with these Regulations (including any postponed and rescheduled meeting), stating the time, place and purposes for which the meeting is called, will be given by or at the direction of the President, a Vice President, the Secretary or an Assistant Secretary (or in

case of their refusal to give notice by the person or persons entitled to call the meeting under Regulation 3). Such notice will be given by personal delivery, by mail or by electronic medium not fewer than 7 nor more than 60 calendar days before the date of the meeting to each shareholder of record entitled to notice of such meeting. If such notice is mailed, it shall be addressed to the shareholders at their respective addresses as they appear on the records of the Corporation, and notice shall be deemed to have been given on the day so mailed. Notice of adjournment of a meeting need not be given if the time and place to which it is adjourned are fixed and announced at such meeting.

5. Inspectors. Inspectors of election may be appointed to act at any meeting of shareholders in accordance with Ohio law.

6. Shareholder Lists. At any meeting of shareholders, an alphabetically arranged list, or classified lists, of the shareholders of record as of the applicable record date who are entitled to vote, showing their respective addresses and the number and classes of shares held by each, shall be produced on the request of any shareholder.

7. Quorum. To constitute a quorum at any meeting of shareholders, there shall be present, in person or by proxy, shareholders of record entitled to exercise not less than a majority of the voting power of the Corporation in respect of any one of the purposes for which the meeting is called, unless a greater or lesser number is expressly provided for with respect to a particular class or series of capital stock by the terms of any applicable Preferred Stock Designation. Except as may be otherwise provided in any Preferred Stock Designation, the holders of a majority of the voting power of the Corporation represented in person or by proxy at a meeting of shareholders, whether or not a quorum be present, may adjourn the meeting from time to time. For purposes of this Amended and Restated Code of Regulations, “voting power of the Corporation” means the aggregate voting power of (a) all the outstanding shares of Common Stock of the Corporation and (b) all the outstanding shares of any class or series of capital stock of the Corporation that has (i) rights to distributions senior to those of the Common Stock including, without limitation, any relative, participating, optional or other special rights and privileges of, and any qualifications or restrictions on, such shares and (ii) voting rights entitling such shares to vote generally in the election of directors.

8. Voting. Except as otherwise expressly required by law, the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations, at any meeting of shareholders at which a quorum is present, a majority of the votes cast, whether in person or by proxy, on any matter properly brought before such meeting in accordance with Regulation 9 will be the act of the shareholders. An abstention shall not represent a vote cast. A shareholder may revoke any proxy that is not irrevocable by attending the meeting and voting in person or by filing with the Secretary written notice of revocation or a later appointment. The vote upon any question brought before a meeting of the shareholders may be by voice vote, unless otherwise required by law, the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations or unless the presiding officer otherwise determines. Every vote taken by written ballot will be counted by the inspectors of election, if inspectors of election are appointed.

9. Order Of Business. (a) The Chairman, or such other officer of the Corporation as is designated by a majority of the total number of directors that the Corporation would have if there were no vacancies on the Board of Directors (such number being referred to as the “Whole Board”), will call

meetings of shareholders to order and will act as presiding officer thereof. Unless otherwise determined by the Board of Directors prior to the meeting, the presiding officer of the meeting of shareholders will also determine the order of business and have the authority in his or her sole discretion to regulate the conduct of any such meeting, including, without limitation, (i) by imposing restrictions on the persons (other than shareholders of the Corporation or their duly appointed proxies) who may attend any such shareholders' meeting, (ii) by ascertaining whether any shareholder or his proxy may be excluded from any meeting of shareholders based upon the presiding officer's determination that any such person has unduly disrupted or is likely to disrupt the proceedings of the meeting and (iii) by determining the circumstances in which and time at which any person may make a statement or ask questions at any meeting of shareholders.

(b) At an annual meeting of the shareholders, only such business will be conducted or considered as is properly brought before the meeting. To be properly brought before an annual meeting, business must be (i) specified in the notice of meeting (or any supplement thereto) given by or at the direction of the President, a Vice President, the Secretary or an Assistant Secretary in accordance with Regulation 4, (ii) otherwise properly brought before the meeting by the presiding officer or by or at the direction of a majority of the Whole Board or (iii) otherwise properly requested to be brought before the meeting by a shareholder of the Corporation in accordance with Regulation 9(c).

(c) For business to be properly requested by a shareholder to be brought before an annual meeting, the shareholder must (i) be a shareholder of the Corporation of record at the time of the giving of the notice for such annual meeting as provided for in this Amended and Restated Code of Regulations, (ii) be entitled to vote at such meeting and (iii) have given timely written notice of the request to the Secretary. To be timely, a shareholder's notice must be delivered to or mailed and received at the principal executive offices of the Corporation not fewer than 60 nor more than 90 calendar days prior to the annual meeting; provided, however, that in the event public announcement of the date of the annual meeting is not made at least 75 calendar days prior to the date of the annual meeting and the annual meeting is held on a date more than ten calendar days before or after the first anniversary of the date on which the prior year's annual meeting was held, notice by the shareholder, to be timely, must be so received not later than the close of business on the 10th calendar day following the day on which public announcement is first made of the date of the annual meeting. A shareholder's notice to the Secretary must set forth as to each matter the shareholder proposes to bring before the annual meeting (A) a description in reasonable detail of the business desired to be brought before the annual meeting and the reasons for conducting such business at the annual meeting, (B) the name and address, as they appear on the Corporation's books, of the shareholder proposing such business and of the beneficial owner, if other than the shareholder, on whose behalf the proposal is made, (C) the class and number of shares of the Corporation that are owned beneficially and of record by the shareholder proposing such business and by the beneficial owner, if other than the shareholder, on whose behalf the proposal is made and (D) any material interest of the shareholder proposing such business and the beneficial owner, if other than the shareholder, on whose behalf the proposal is made in such business. Notwithstanding the foregoing provisions of this Amended and Restated Code of Regulations, a shareholder must also comply with all applicable requirements of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder with respect to the matters set forth in this Regulation 9(c). For purposes of this Regulation 9(c) and Regulation 14, "public announcement"

means disclosure in a press release reported by the Dow Jones News Service, Associated Press, or comparable national news service or in a document publicly filed by the Corporation with the Securities and Exchange Commission pursuant to Sections 13, 14 or 15(d) of the Securities Exchange Act of 1934, as amended, or publicly filed by the Corporation with any national securities exchange or quotation service through which the Corporation's stock is listed or traded, or furnished by the Corporation to its shareholders. Nothing in this Regulation 9(c) will be deemed to affect any rights of shareholders to request inclusion of proposals in the Corporation's proxy statement pursuant to Rule 14a-8 under the Securities Exchange Act of 1934, as amended.

(d) At a special meeting of shareholders, only such business may be conducted or considered as is properly brought before the meeting. To be properly brought before a special meeting, business must be (i) specified in the notice of the meeting (or any supplement thereto) given by or at the direction of the President, a Vice President, the Secretary or an Assistant Secretary (or in case of their failure to give any required notice, the other persons entitled to give notice) in accordance with Regulation 4 or (ii) otherwise brought before the meeting by the presiding officer or by or at the direction of a majority of the Whole Board.

(e) The determination of whether any business sought to be brought before any annual or special meeting of the shareholders is properly brought before such meeting in accordance with this Regulation 9 will be made by the presiding officer of such meeting. If the presiding officer determines that any business is not properly brought before such meeting, he or she will so declare to the meeting and any such business will not be conducted or considered.

10. Report To Shareholders. At the annual meeting, or at the meeting held in lieu thereof, the officers of the Corporation shall lay before the shareholders a financial statement as required by statute.

11. Action Without A Meeting. Any action that may be authorized or taken at a meeting of the shareholders may be authorized or taken without a meeting in a writing or writings signed by all of the shareholders who would be entitled to notice of a meeting for such purpose, which writing or writings shall be filed with or entered upon the records of the Corporation.

DIRECTORS

12. Function. Except where the law, the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations requires action to be authorized or taken by the shareholders, all of the authority of the Corporation shall be exercised by or under the direction of the Board of Directors.

13. Number, Terms And Election Of Directors. (a) The directors of the corporation, other than those who may be expressly elected by virtue of the terms of any Preferred Stock Designation, shall be classified with respect to the time for which they severally hold office into three classes. Except as may be otherwise provided in any Preferred Stock Designation, each class will consist of not less than three directors, unless and until the number of directors of any such class is changed in accordance with this Regulation 13. The number of directors of any class will be determined from time to time by (i) the affirmative vote of the holders of a majority of the voting power of the Corporation, voting together as a single class, or (ii) a vote of a majority of the Whole Board, provided that the number of directors of any class changed by a vote of a majority of the Whole Board shall not differ by more than one from the number of directors of such class as last fixed by the shareholders.

(b) The directors first appointed to Class I will hold office for a term expiring at the annual meeting of shareholders to be held in 2001; the directors first appointed to Class II will hold office for a term expiring at the annual meeting of shareholders to be held in 2002; and the directors first appointed to Class III will hold office for a term expiring at the annual meeting of shareholders to be held in 2003. The members of each class will hold office until their successors are elected. At each annual meeting beginning in 2001, directors will be elected for a term of three years from the date of their election and until the election of their successors.

(c) At each annual meeting of the shareholders of the Corporation, the successors to the directors whose terms expire at that meeting shall be elected by a plurality of all the votes cast at such meeting. Cumulative voting in the election of directors shall be permitted as provided by statute. Election of directors of the Corporation need not be by written ballot unless requested by the presiding officer or by the holders of a majority of the voting power of the Corporation present in person or represented by proxy at a meeting of the shareholders at which directors are to be elected. Directors may also be elected by a majority of the votes cast at a special meeting called for the purpose of electing directors or as may otherwise be provided by any Preferred Stock Designation.

14. Newly Created Directorships And Vacancies. Except as may be otherwise provided in any Preferred Stock Designation, any vacancy (including newly created directorships resulting from any increase in the number of directors and any vacancies on the Board of Directors resulting from death, resignation, disqualification, removal, or other cause) may be filled by (i) the affirmative vote of a majority of the remaining directors then in office, even though less than a quorum of the Board of Directors, (ii) sole remaining director or (iii) the affirmative vote of the holders of a majority of the Voting Power of the Corporation, voting together as a single class, after a vote to increase the number of directors at a meeting called for that purpose in accordance with this Amended and Restated Code of Regulations. Any director elected in accordance with this Regulation 14, any Preferred Stock Designation or applicable statute will hold office for the remainder of the

full term of the class of directors in which the new directorship was created or the vacancy occurred and until such director's successor has been elected.

15. Removal. Except as may otherwise be provided by any Preferred Stock Designation, all Directors, for whatever terms elected, shall hold office subject to applicable statutory provisions as to the creation of vacancies and removal. No decrease in the number of directors constituting the Board of Directors may shorten the term of any incumbent director.

16. Nominations Of Directors; Election. (a) Except as may be otherwise provided in any Preferred Stock Designation, only persons who are nominated in accordance with this Regulation 16 will be eligible for election at a meeting of shareholders to be members of the Board of Directors of the Corporation.

(b) Nominations of persons for election as directors of the Corporation may be made only at a meeting of shareholders (i) by or at the direction of the Board of Directors or a committee thereof or (ii) by any shareholder who is a shareholder of record at the time of giving of notice provided for in this Regulation 16, who is entitled to vote for the election of directors at such meeting, and who complies with the procedures set forth in this Regulation 16. All nominations by shareholders must be made to the Secretary in proper written form and must be timely.

(c) To be timely, a shareholder's notice must be delivered to or mailed and received at the principal executive offices of the Corporation, in the case of a special meeting of the shareholders, at the time the meeting request is made in accordance with Regulation 3, or, in the case of an annual meeting, not fewer than 60 nor more than 90 calendar days prior to such annual meeting; provided, however, that in the event that public announcement of the date of the annual meeting is not made at least 75 calendar days prior to the date of the annual meeting and the annual meeting is held on a date more than one week before or after the first anniversary of the date on which the prior year's annual meeting was held, notice by the shareholder to be timely must be so received not later than the close of business on the 10th calendar day following the day on which public announcement is first made of the date of the annual meeting.

(d) To be in proper written form, such shareholder's notice must set forth or include:

(i) the name and address, as they appear on the Corporation's books, of the shareholder giving the notice and of the beneficial owner, if any, on whose behalf the nomination is made;

(ii) a representation that the shareholder giving the notice is a holder of record of stock of the Corporation entitled to vote at such annual meeting and intends to appear in person or by proxy at the annual meeting to nominate the person or persons specified in the notice;

(iii) the class and number of shares of stock of the Corporation owned beneficially and of record by the shareholder giving the notice and by the beneficial owner, if any, on whose behalf the nomination is made;

(iv) a description of all arrangements or understandings between or among any of (A) the shareholder giving the notice, (B) the beneficial owner on whose behalf the notice is given, (C) each nominee and (D) any other person or persons (naming such person or persons)

pursuant to which the nomination or nominations are to be made by the shareholder giving the notice;

(v) such other information regarding each nominee proposed by the shareholder giving the notice as would be required to be included in a proxy statement filed pursuant to the proxy rules of the Securities and Exchange Commission had the nominee been nominated, or intended to be nominated, by the Board of Directors; and

(vi) the signed consent of each nominee to serve as a director of the Corporation if so elected.

(e) The presiding officer of any annual meeting may, if the facts warrant, determine that a nomination was not made in accordance with this Regulation 16, and if he or she should so determine, he or she will so declare to the meeting, and the defective nomination will be disregarded. Notwithstanding the foregoing provisions of this Regulation 16, a shareholder must also comply with all applicable requirements of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder with respect to the matters set forth in this Regulation 16.

17. Resignation. Any director may resign at any time by giving written notice of his resignation to the Chairman or the Secretary. Any resignation will be effective upon actual receipt by any such person or, if later, as of the date and time specified in such written notice.

18. Regular Meetings. Regular meetings of the Board of Directors shall be held immediately after the annual meeting of the shareholders and at such other time and place either within or without the State of Ohio as may from time to time be determined by a majority of the Whole Board. Notice of regular meetings of the Board of Directors need not be given.

19. Special Meetings. Special meetings of the Board of Directors may be called by the Chairman, by the President, by a Vice President, by the Secretary or by any two directors. Notice of special meetings, stating the place, date and hour, shall be given to each director by whom such notice is not waived. Notice must be given either personally or by mail, telephone, telegram, telex, facsimile or similar medium of communication not less than twenty- four hours before the designated hour for such meeting. Special meetings of the Board of Directors may be held at such time and place either within or without the State of Ohio as is determined by a majority of the Whole Board or specified in the notice of any such meeting.

20. Quorum And Vote. At all meetings of the Board of Directors, a majority of the total number of directors then in office will constitute a quorum for the transaction of business. Except as may be otherwise provided in any Preferred Stock Designation or by this Amended and Restated Code of Regulations, the act of a majority of the directors present at any meeting at which a quorum is present will be the act of the Board of Directors. If a quorum is not present at any meeting of the Board of Directors, the directors present thereat may adjourn the meeting from time to time to another time or place, without notice other than announcement at the meeting, until a quorum is present.

21. Action Without A Meeting. Any action that may be authorized or taken at a meeting of the Board of Directors may be authorized or taken without a meeting in a writing or writings signed by all the directors, which writing or writings shall be filed with or entered upon the records of the Corporation.

22. Participation In Meetings By Communications Equipment. Meetings of the Board of Directors or of any committee of the Board of Directors may be held through any means of communications equipment if all persons participating can hear each other, and such participation will constitute presence in person at such meeting.

23. Committees. The Board of Directors may from time to time create an executive committee or any other committee or committees of directors to act in the intervals between meetings of the Board of Directors and may delegate to such committee or committees any of its authority other than that of filling vacancies among the Board of Directors or in any committee of the Board of Directors. Each committee shall consist of one or more directors. The Board of Directors may appoint one or more directors as alternate members of any such committee to take the place of absent committee members at meetings of such committee. Unless otherwise ordered by the Board of Directors, a majority of the members of any committee appointed by the Board of Directors pursuant to this Regulation 23 shall constitute a quorum at any meeting thereof, and the act of a majority of the members present at a meeting at which a quorum is present shall be the act of such committee. Action may be taken by any such committee without a meeting by a writing or writings signed by all of its members. Any such committee shall prescribe its own rules for calling and holding meetings and its method of procedure, subject to any rules prescribed by the Board of Directors, and will keep a written record of all action taken by it.

24. Compensation. The Board of Directors may establish the compensation and expense reimbursement policies for directors in exchange for service on the Board of Directors and on committees of the Board of Directors, for attendance at meetings of the Board of Directors or committees of the Board of Directors, and for other services by directors to the Corporation or any of its subsidiaries.

25. Bylaws. The Board of Directors may adopt Bylaws for the conduct of its meetings and those of any committees of the Board of Directors that are not inconsistent with the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations.

OFFICERS

26. Generally. The Corporation may have a Chairman, elected by the directors from among their number, and shall have a President, who shall also be a director, a Secretary and a Treasurer. The Corporation may also have one or more Vice Presidents and such other officers and assistant officers as the Board of Directors may deem appropriate. If the Board of Directors so desires, it may elect a Chief Executive Officer to manage the affairs of the Corporation, subject to the direction and control of the Board of Directors. All of the officers shall be elected by the Board of Directors. Notwithstanding the foregoing, by specific action, the Board of Directors may authorize the Chairman or the President to appoint any person to any office other than Chairman, President, Secretary or Treasurer. Any number of offices may be held by the same person, and no two offices must be held by the same person. Any of the offices, other than the office of President, Secretary and Treasurer, may be left vacant from time to time as the Board of Directors may determine. In case of the absence or disability of any officer of the Corporation or for any other reason deemed sufficient by a majority of the Board of Directors, the Board of Directors may delegate the absent or disabled officer's powers or duties to any other officer or to any director.

27. Authority And Duties Of Officers. The officers of the Corporation shall have such authority and shall perform such duties as are customarily incident to their respective offices, or as may be specified from time to time by the Board of Directors, regardless of whether such authority and duties are customarily incident to such office.

28. Compensation. The compensation of all officers and agents of the Corporation who are also members of the Board of Directors of the Corporation will be fixed by the Board of Directors or by a committee of the Board of Directors. The Board of Directors may fix the compensation of the other officers and agents of the Corporation, or delegate the power to fix such compensation, to the Chief Executive Officer or any other officer of the Corporation.

29. Succession. The officers of the Corporation will hold office until their successors are elected pursuant to Regulation 26. Any officer may be removed at any time by the affirmative vote of a majority of the Whole Board. Any vacancy occurring in any office of the Corporation may be filled by the Board of Directors or by the Chairman or President as provided in Regulation 26.

STOCK

30. Transfer And Registration Of Certificates. The Board of Directors shall have authority to make such rules and regulations as it deems expedient concerning the issuance, transfer and registration of certificates for shares and the shares represented thereby and may appoint transfer agents and registrars thereof.

31. Substituted Certificates. Any person claiming a certificate for shares to have been lost, stolen or destroyed (i) shall make an affidavit or affirmation of that fact, (ii) shall give the Corporation and its registrar or registrars and its transfer agent or agents a bond of indemnity satisfactory to the Board of Directors or a committee thereof or to the President or a Vice President and the Secretary or the Treasurer and (iii) shall, if required by the Board of Directors or a committee thereof or the officers named in this Regulation 31, advertise the fact that the certificate has been lost, stolen or destroyed, whereupon a new certificate may be executed and delivered of the same tenor and for the same number of shares as the one alleged to have been lost, stolen or destroyed.

32. Voting Of Shares Held By The Corporation. Unless otherwise ordered by the Board of Directors, the President, in person or by proxy or proxies appointed by him, shall have full power and authority on behalf of the Corporation to vote, act and consent with respect to any shares issued by other corporations and owned by the Corporation.

33. Record Dates And Owners. (a) In order that the Corporation may determine the shareholders entitled to notice of or to vote at any meeting of shareholders or any adjournment thereof, or to designate an agent to act on behalf of the shareholders to call a special meeting of shareholders, or to take any other collective action on behalf of the shareholders, the Board of Directors may fix a record date, which will not be fewer than 7 nor more than 60 calendar days before the date of such meeting. If no record date is fixed by the Board of Directors, the record date for determining shareholders entitled to notice of or to vote at a meeting of shareholders will be the date next preceding the day on which notice is given, or, if notice is waived, the date next preceding the day on which the meeting is held.

(b) The Corporation will be entitled to treat the person in whose name shares are registered on the books of the Corporation as the absolute owner thereof, and will not be bound to recognize any equitable or other claim to, or interest in, such share on the part of any other person, whether or not the Corporation has knowledge or notice of the claim or interest, except as expressly provided by applicable law.

INDEMNIFICATION AND INSURANCE

34. Indemnification.

(a) The Corporation shall indemnify, to the full extent then permitted by law, any director or officer or former director or officer of the Corporation who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he is or was a member of the Board of Directors or an officer, employee or agent of the Corporation, or is or was serving at the request of the Corporation as a director, trustee, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise. The Corporation shall pay, to the full extent then required by law, expenses, including attorney's fees, incurred by a member of the Board of Directors in defending any such action, suit or proceeding as they are incurred, in advance of the final disposition thereof.

(b) To the full extent then permitted by law, the Corporation may indemnify employees, agents and other persons and may pay expenses, including attorney's fees, incurred by any employee, agent or other person in defending any action, suit or proceeding as such expenses are incurred, in advance of the final disposition thereof.

(c) The indemnification and payment of expenses provided by this Regulation 34 shall not be exclusive of, and shall be in addition to, any other rights granted to any person seeking indemnification under any law, the Amended and Restated Articles of Incorporation, any agreement, vote of shareholders or disinterested members of the Board of Directors, or otherwise, both as to action in official capacities and as to action in another capacity while he or she is a member of the Board of Directors or an officer, employee or agent of the Corporation, and shall continue as to a person who has ceased to be a member of the Board of Directors, trustee, officer, employee or agent and shall inure to the benefit of the heirs, executors, and administrators of such a person.

35. Insurance. The Corporation may, to the full extent then permitted by law and authorized by the Board of Directors, purchase and maintain insurance or furnish similar protection, including but not limited to trust funds, letters of credit or self-insurance, on behalf of or for any persons described in Regulation 34 against any liability asserted against and incurred by any such person in any such capacity, or arising out of his status as such, whether or not the Corporation would have the power to indemnify such person against such liability. Insurance may be purchased from or maintained with a person in which the Corporation has a financial interest.

36. Agreements. The Corporation, upon approval by the Board of Directors, may enter into agreements with any persons who the Corporation may indemnify under this Amended and Restated Code of Regulations or under law and may undertake thereby to indemnify such persons and to pay the expenses incurred by them in defending any action, suit or proceeding against them, whether or not the Corporation would have the power under law or this Amended and Restated Code of Regulations to indemnify any such person.

GENERAL

37. Fiscal Year. The fiscal year of the Corporation will end on the thirty-first day of December in each calendar year or such other date as may be fixed from time to time by the Board of Directors.

38. Seal. The seal of the Corporation shall be circular in form with the name of the Corporation stamped around the margin and the word “Seal” stamped across the center.

39. Amendments. Except as otherwise provided by law or by the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations, these Regulations or any of them may be amended in any respect or repealed at any time by the affirmative vote of the holders of a majority of the voting power of the Corporation, voting together as a single class.

RIGHTS AGREEMENT

Dated as of May 10, 2000

By and Between

Brush Engineered Materials Inc.

and

National City Bank, N.A.,
as Rights Agent

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RIGHTS AGREEMENT

This RIGHTS AGREEMENT, dated as of May 10, 2000 (this "AGREEMENT"), is made and entered into by and between Brush Engineered Materials Inc., an Ohio corporation (the "COMPANY"), and National City Bank, N.A., as rights agent (the "RIGHTS AGENT").

RECITALS

WHEREAS, on May 10, 2000, the Directors of the Company authorized and declared a dividend distribution of one right (a "RIGHT") for each share of common stock, no par value, of the Company (each, a "COMMON SHARE") outstanding as of the Close of Business (as defined in Section 1(e)) on May 16, 2000 (the "RECORD DATE"), each Right initially representing the right to purchase one one-hundredth of a Preferred Share (as defined in Section 1(q)) on the terms and subject to the conditions herein set forth, and further authorized and directed the issuance of one Right (subject to adjustment as provided herein) with respect to each Common Share issued or delivered by the Company (whether originally issued or delivered from the Company's treasury) after the Record Date but prior to the earlier of the Distribution Date (as defined in Section 1(h)) and the Expiration Date (as defined in Section 1(j)) or as provided in Section 22.

NOW, THEREFORE, in consideration of the mutual agreements herein set forth, the parties hereto hereby agree as follows:

1. CERTAIN DEFINITIONS. For purposes of this Agreement, the following terms have the meanings indicated:

(a) "ACQUIRING PERSON" means any Person (other than the Company or any Related Person) that, together with all Affiliates and Associates of such Person, is the Beneficial Owner of 20% or more of the then-outstanding Common Shares; PROVIDED, HOWEVER, that a Person will not be deemed to have become an Acquiring Person solely as a result of a reduction in the number of Common Shares outstanding unless and until such time as (i) such Person or any Affiliate or Associate of such Person thereafter becomes the Beneficial Owner of additional Common Shares representing 1% or more of the then-outstanding Common Shares, other than as a result of a stock dividend, stock split or similar transaction effected by the Company in which all holders of Common Shares are treated equally, or (ii) any other Person that is the Beneficial Owner of Common Shares representing 1% or more of the then-outstanding Common Shares thereafter becomes an Affiliate or Associate of such Person. Notwithstanding the foregoing, if the Directors of the Company determine in good faith that a Person who would otherwise be an "Acquiring Person" as defined pursuant to the foregoing provisions of this paragraph (a), has become such inadvertently, and such Person divests as promptly as practicable a sufficient number of Common Shares so that such Person would no longer be an "Acquiring Person" as defined pursuant to the foregoing provisions of this paragraph (a), then such Person shall not be deemed to be an "ACQUIRING PERSON" for any purposes of this Agreement.

(b) "AFFILIATE" and "ASSOCIATE" will have the respective meanings ascribed to such terms in Rule 12b-2 of the General Rules and Regulations under the Exchange Act, as in effect on the date of this Agreement.

(c) A Person will be deemed the “BENEFICIAL OWNER” of, and to “BENEFICIALLY OWN,” any securities:

(i) the beneficial ownership of which such Person or any of such Person’s Affiliates or Associates, directly or indirectly, has the right to acquire (whether such right is exercisable immediately or only after the passage of time) pursuant to any agreement, arrangement or understanding (whether or not in writing), or upon the exercise of conversion rights, exchange rights, warrants, options or other rights (in each case, other than upon exercise or exchange of the Rights); PROVIDED, HOWEVER, that a Person will not be deemed the Beneficial Owner of, or to Beneficially Own, securities tendered pursuant to a tender or exchange offer made by or on behalf of such Person or any of such Person’s Affiliates or Associates until such tendered securities are accepted for purchase or exchange; or

(ii) which such Person or any of such Person’s Affiliates or Associates, directly or indirectly, has or shares the right to vote or dispose of, including pursuant to any agreement, arrangement or understanding (whether or not in writing); or

(iii) of which any other Person is the Beneficial Owner, if such Person or any of such Person’s Affiliates or Associates has any agreement, arrangement or understanding (whether or not in writing) with such other Person (or any of such other Person’s Affiliates or Associates) with respect to acquiring, holding, voting or disposing of any securities of the Company;

PROVIDED, HOWEVER, that a Person will not be deemed the Beneficial Owner of, or to Beneficially Own, any security (A) if such Person has the right to vote such security pursuant to an agreement, arrangement or understanding (whether or not in writing) which (1) arises solely from a revocable proxy given to such Person in response to a public proxy or consent solicitation made pursuant to, and in accordance with, the applicable rules and regulations of the Exchange Act and (2) is not also then reportable on Schedule 13D under the Exchange Act (or any comparable or successor report), or (B) if such beneficial ownership arises solely as a result of such Person’s status as a “clearing agency,” as defined in Section 3(a)(23) of the Exchange Act; PROVIDED FURTHER, HOWEVER, that nothing in this paragraph (c) will cause a Person engaged in business as an underwriter of securities to be the Beneficial Owner of, or to Beneficially Own, any securities acquired through such Person’s participation in good faith in an underwriting syndicate until the expiration of 40 calendar days after the date of such acquisition, or such later date as the Directors of the Company may determine in any specific case.

(d) “BUSINESS DAY” means any day other than a Saturday, Sunday or a day on which banking institutions in the State of New York (or such other state in which the principal office of the Rights Agent is located) are authorized or obligated by law or executive order to close.

(e) “CLOSE OF BUSINESS” on any given date means 5:00 P.M., Eastern time, on such date; PROVIDED, HOWEVER, that if such date is not a Business Day it means 5:00 P.M., Eastern time, on the next succeeding Business Day.

(f) “COMMON SHARES” when used with reference to the Company means the shares of common stock, no par value, of the Company; PROVIDED, HOWEVER, that, if the Company is the

continuing or surviving corporation in a transaction described in Section 13(a)(ii), “Common Shares” when used with reference to the Company means shares of the capital stock or units of the equity interests with the greatest aggregate voting power of the Company. “Common Shares” when used with reference to any corporation or other legal entity other than the Company, including an Issuer, means shares of the capital stock or units of the equity interests with the greatest aggregate voting power of such corporation or other legal entity.

(g) “COMPANY” means Brush Engineered Materials Inc., an Ohio corporation.

(h) “DISTRIBUTION DATE” means the earlier of: (i) the Close of Business on the tenth calendar day following the Share Acquisition Date, or (ii) the Close of Business on the tenth Business Day (or, unless the Distribution Date shall have previously occurred, such later date as may be specified by the Directors of the Company) after the commencement of a tender or exchange offer by any Person (other than the Company or any Related Person), if upon the consummation thereof such Person would be the Beneficial Owner of 20% or more of the then-outstanding Common Shares.

(i) “EXCHANGE ACT” means the Securities Exchange Act of 1934.

(j) “EXPIRATION DATE” means the earliest of (i) the Close of Business on the Final Expiration Date, (ii) the time at which the Rights are redeemed as provided in Section 23, and (iii) the time at which all exercisable Rights are exchanged as provided in Section 24.

(k) “FINAL EXPIRATION DATE” means the tenth anniversary of the Record Date.

(l) “FLIP-IN EVENT” means any event described in clauses (A), (B) or (C) of Section 11(a)(ii).

(m) “FLIP-OVER EVENT” means any event described in clauses (i), (ii) or (iii) of Section 13(a).

(n) “ISSUER” has the meaning set forth in Section 13(b).

(o) “NASDAQ” means The NASDAQ Stock Market.

(p) “PERSON” means any individual, firm, corporation or other legal entity, and includes any successor (by merger or otherwise) of such entity.

(q) “PREFERRED SHARES” means shares of Series A Junior Participating Preferred Stock, without par value, of the Company having the rights and preferences set forth in the form of Certificate of Adoption of Amendment to Articles of Incorporation attached as EXHIBIT A.

(r) “PURCHASE PRICE” means initially \$110.00 per one one-hundredth of a Preferred Share, subject to adjustment from time to time as provided in this Agreement.

(s) “RECORD DATE” has the meaning set forth in the Recitals to this Agreement.

(t) "REDEMPTION PRICE" means \$0.01 per Right, subject to adjustment by resolution of the Directors of the Company to reflect any stock split, stock dividend or similar transaction occurring after the Record Date.

(u) "RELATED PERSON" means (i) any Subsidiary of the Company or (ii) any employee benefit or stock ownership plan of the Company or of any Subsidiary of the Company or any entity holding Common Shares for or pursuant to the terms of any such plan.

(v) "RIGHT" has the meaning set forth in the Recitals to this Agreement.

(w) "RIGHT CERTIFICATES" means certificates evidencing the Rights, in substantially the form attached as EXHIBIT B.

(x) "RIGHTS AGENT" means National City Bank, N.A., unless and until a successor Rights Agent has become such pursuant to the terms of this Agreement, and thereafter, "Rights Agent" means such successor Rights Agent.

(y) "SECURITIES ACT" means the Securities Act of 1933.

(z) "SHARE ACQUISITION DATE" means the first date of public announcement by the Company (by press release, filing made with the Securities and Exchange Commission or otherwise) that an Acquiring Person has become such.

(aa) "SUBSIDIARY" when used with reference to any Person means any corporation or other legal entity of which a majority of the voting power of the voting equity securities or equity interests is owned, directly or indirectly, by such Person; PROVIDED, HOWEVER, that for purposes of Section 13(b), "Subsidiary" when used with reference to any Person means any corporation or other legal entity of which at least 20% of the voting power of the voting equity securities or equity interests is owned, directly or indirectly, by such Person.

(bb) "TRADING DAY" means any day on which the principal national securities exchange on which the Common Shares are listed or admitted to trading is open for the transaction of business or, if the Common Shares are not listed or admitted to trading on any national securities exchange, a Business Day.

(cc) "TRIGGERING EVENT" means any Flip-in Event or Flip-over Event.

2. APPOINTMENT OF RIGHTS AGENT. The Company hereby appoints the Rights Agent to act as agent for the Company and the holders of the Rights (who, in accordance with Section 3, will also be, prior to the Distribution Date, the holders of the Common Shares) in accordance with the terms and conditions hereof, and the Rights Agent hereby accepts such appointment and hereby certifies that it complies with the requirements of the New York Stock Exchange governing transfer agents and registrars. The Company may from time to time act as Co-Rights Agent or appoint such Co-Rights Agents as it may deem necessary or desirable. Any actions which may be taken by the Rights Agent pursuant to the terms of this Agreement may be taken by any such Co-Rights Agent. To the extent that any Co-Rights Agent takes any action pursuant to this Agreement, such Co-Rights Agent will be entitled to all of the rights and

protections of, and subject to all of the applicable duties and obligations imposed upon, the Rights Agent pursuant to the terms of this Agreement.

3. ISSUE OF RIGHT CERTIFICATES. (a) Until the Distribution Date, (i) the Rights will be evidenced by the certificates representing Common Shares registered in the names of the record holders thereof (which certificates representing Common Shares will also be deemed to be Right Certificates), (ii) the Rights will be transferable only in connection with the transfer of the underlying Common Shares, and (iii) the surrender for transfer of any certificates evidencing Common Shares in respect of which Rights have been issued will also constitute the transfer of the Rights associated with the Common Shares evidenced by such certificates. On or as promptly as practicable after the Record Date, the Company will send by first class, postage prepaid mail, to each record holder of Common Shares as of the Close of Business on the Record Date, at the address of such holder shown on the records of the Company as of such date, a copy of a Summary of Rights to Purchase Preferred Stock in substantially the form attached as EXHIBIT C.

(b) Rights will be issued by the Company in respect of all Common Shares (other than Common Shares issued upon the exercise or exchange of any Right) issued or delivered by the Company (whether originally issued or delivered from the Company's treasury) after the Record Date but prior to the earlier of the Distribution Date and the Expiration Date. Certificates evidencing such Common Shares will have stamped on, impressed on, printed on, written on, or otherwise affixed to them the following legend or such similar legend as the Company may deem appropriate and as is not inconsistent with the provisions of this Agreement, or as may be required to comply with any applicable law or with any rule or regulation made pursuant thereto or with any rule or regulation of any stock exchange or transaction reporting system on which the Common Shares may from time to time be listed or quoted, or to conform to usage:

This Certificate also evidences and entitles the holder hereof to certain Rights as set forth in a Rights Agreement between Brush Engineered Materials Inc. and National City Bank, N.A., dated as of May 10, 2000 (the "RIGHTS AGREEMENT"), the terms of which are hereby incorporated herein by reference and a copy of which is on file at the principal executive offices of Brush Engineered Materials Inc. The Rights are not exercisable prior to the occurrence of certain events specified in the Rights Agreement. Under certain circumstances, as set forth in the Rights Agreement, such Rights may be redeemed, may be exchanged, may expire, may be amended, or may be evidenced by separate certificates and no longer be evidenced by this Certificate. Brush Engineered Materials Inc. will mail to the holder of this Certificate a copy of the Rights Agreement, as in effect on the date of mailing, without charge promptly after receipt of a written request therefor. Under certain circumstances as set forth in the Rights Agreement, Rights that are or were beneficially owned by an Acquiring Person or any Affiliate or Associate of an Acquiring Person (as such terms are defined in the Rights Agreement) may become null and void.

(c) Any Right Certificate issued pursuant to this Section 3 that represents Rights beneficially owned by an Acquiring Person or any Associate or Affiliate thereof and any Right Certificate issued at any time upon the transfer of any Rights to an Acquiring Person or any Associate or Affiliate thereof or to any nominee of such Acquiring Person, Associate or Affiliate

and any Right Certificate issued pursuant to Section 6 or 11 hereof upon transfer, exchange, replacement or adjustment of any other Right Certificate referred to in this sentence, shall be subject to and contain the following legend or such similar legend as the Company may deem appropriate and as is not inconsistent with the provisions of this Agreement, or as may be required to comply with any applicable law or with any rule or regulation made pursuant thereto or with any rule or regulation of any stock exchange on which the Rights may from time to time be listed, or to conform to usage:

The Rights represented by this Right Certificate are or were beneficially owned by a Person who was an Acquiring Person or an Affiliate or an Associate of an Acquiring Person (as such terms are defined in the Rights Agreement). This Right Certificate and the Rights represented hereby may become null and void in the circumstances specified in Section 11(a)(ii) or Section 13 of the Rights Agreement.

(d) As promptly as practicable after the Distribution Date, the Company will prepare and execute, the Rights Agent will countersign and the Company will send or cause to be sent (and the Rights Agent will, if requested, send), by first class, insured, postage prepaid mail, to each record holder of Common Shares as of the Close of Business on the Distribution Date, at the address of such holder shown on the records of the Company, a Right Certificate evidencing one Right for each Common Share so held, subject to adjustment as provided herein. As of and after the Distribution Date, the Rights will be evidenced solely by such Right Certificates.

(e) In the event that the Company purchases or otherwise acquires any Common Shares after the Record Date but prior to the Distribution Date, any Rights associated with such Common Shares will be deemed canceled and retired so that the Company will not be entitled to exercise any Rights associated with the Common Shares so purchased or acquired.

4. FORM OF RIGHT CERTIFICATES. The Right Certificates (and the form of election to purchase and the form of assignment to be printed on the reverse thereof) will be substantially in the form attached as EXHIBIT B with such changes and marks of identification or designation, and such legends, summaries or endorsements printed thereon, as the Company may deem appropriate and as are not inconsistent with the provisions of this Agreement, or as may be required to comply with any applicable law or with any rule or regulation made pursuant thereto or with any rule or regulation of any stock exchange or transaction reporting system on which the Rights may from time to time be listed or quoted, or to conform to usage. Subject to the provisions of Section 22, the Right Certificates, whenever issued, on their face will entitle the holders thereof to purchase such number of one one-hundredths of a Preferred Share as are set forth therein at the Purchase Price set forth therein, but the Purchase Price, the number and kind of securities issuable upon exercise of each Right and the number of Rights outstanding will be subject to adjustment as provided herein.

5. COUNTERSIGNATURE AND REGISTRATION. (a) The Right Certificates will be executed on behalf of the Company by its Chairman, its President or any Vice President, either manually or by facsimile signature, and will have affixed thereto the Company's seal or a facsimile thereof which will be attested by the Secretary or an Assistant Secretary of the Company, either manually or by facsimile signature. The Right Certificates will be manually countersigned by the Rights Agent and will not be valid for any purpose unless so countersigned. In case any officer of the Company who signed any of the Right Certificates ceases to be such officer of the

Company before countersignature by the Rights Agent and issuance and delivery by the Company, such Right Certificates, nevertheless, may be countersigned by the Rights Agent, and issued and delivered by the Company with the same force and effect as though the person who signed such Right Certificates had not ceased to be such officer of the Company; and any Right Certificate may be signed on behalf of the Company by any person who, at the actual date of the execution of such Right Certificate, is a proper officer of the Company to sign such Right Certificate, although at the date of the execution of this Rights Agreement any such person was not such officer.

(b) Following the Distribution Date, the Rights Agent will keep or cause to be kept, at the principal office of the Rights Agent designated for such purpose and at such other offices as may be required to comply with any applicable law or with any rule or regulation made pursuant thereto or with any rule or regulation of any stock exchange or any transaction reporting system on which the Rights may from time to time be listed or quoted, books for registration and transfer of the Right Certificates issued hereunder. Such books will show the names and addresses of the respective holders of the Right Certificates, the number of Rights evidenced on its face by each of the Right Certificates and the date of each of the Right Certificates.

6. TRANSFER, SPLIT UP, COMBINATION AND EXCHANGE OF RIGHT CERTIFICATES; MUTILATED, DESTROYED, LOST OR STOLEN RIGHT CERTIFICATES. (a) Subject to the provisions of Sections 7(d) and 14, at any time after the Close of Business on the Distribution Date and prior to the Expiration Date, any Right Certificate or Right Certificates representing exercisable Rights may be transferred, split up, combined or exchanged for another Right Certificate or Right Certificates, entitling the registered holder to purchase a like number of one one-hundredths of a Preferred Share (or other securities, as the case may be) as the Right Certificate or Right Certificates surrendered then entitled such holder (or former holder in the case of a transfer) to purchase. Any registered holder desiring to transfer, split up, combine or exchange any such Right Certificate or Rights Certificates must make such request in a writing delivered to the Rights Agent and must surrender the Right Certificate or Right Certificates to be transferred, split up, combined or exchanged at the principal office of the Rights Agent designated for such purpose. Thereupon or as promptly as practicable thereafter, subject to the provisions of Sections 7(d) and 14, the Company will prepare, execute and deliver to the Rights Agent, and the Rights Agent will countersign and deliver, a Right Certificate or Right Certificates, as the case may be, as so requested. The Company may require payment of a sum sufficient to cover any tax or governmental charge that may be imposed in connection with any transfer, split up, combination or exchange of Right Certificates.

(b) Upon receipt by the Company and the Rights Agent of evidence reasonably satisfactory to them of the loss, theft, destruction or mutilation of a Right Certificate and, in case of loss, theft or destruction, of indemnity or security reasonably satisfactory to them, and, if requested by the Company, reimbursement to the Company and the Rights Agent of all reasonable expenses incidental thereto, and upon surrender to the Rights Agent and cancellation of the Right Certificate if mutilated, the Company will prepare, execute and deliver a new Right Certificate of like tenor to the Rights Agent and the Rights Agent will countersign and deliver such new Right Certificate to the registered holder in lieu of the Right Certificate so lost, stolen, destroyed or mutilated.

7. EXERCISE OF RIGHTS; PURCHASE PRICE; EXPIRATION DATE OF RIGHTS. (a) The registered holder of any Right Certificate may exercise the Rights evidenced thereby (except as otherwise provided herein) in whole or in part at any time after the Distribution Date and prior to the Expiration Date, upon surrender of the Right Certificate, with the form of election to purchase on the reverse side thereof duly executed, to the Rights Agent at the office or offices of the Rights Agent designated for such purpose, together with payment in cash, in lawful money of the United States of America by certified check or bank draft payable to the order of the Company, equal to the sum of (i) the exercise price for the total number of securities as to which such surrendered Rights are exercised and (ii) an amount equal to any applicable transfer tax required to be paid by the holder of such Right Certificate in accordance with the provisions of Section 9(d).

(b) Upon receipt of a Right Certificate representing exercisable Rights with the form of election to purchase duly executed, accompanied by payment as described above, the Rights Agent will promptly (i) requisition from any transfer agent of the Preferred Shares (or make available, if the Rights Agent is the transfer agent) certificates representing the number of one one-hundredths of a Preferred Share to be purchased (and the Company hereby irrevocably authorizes and directs its transfer agent to comply with all such requests), or, if the Company elects to deposit Preferred Shares issuable upon exercise of the Rights hereunder with a depositary agent, requisition from the depositary agent depositary receipts representing such number of one one-hundredths of a Preferred Share as are to be purchased (and the Company hereby irrevocably authorizes and directs such depositary agent to comply with all such requests), (ii) after receipt of such certificates (or depositary receipts, as the case may be), cause the same to be delivered to or upon the order of the registered holder of such Right Certificate, registered in such name or names as may be designated by such holder, (iii) when appropriate, requisition from the Company or any transfer agent therefor (or make available, if the Rights Agent is the transfer agent) certificates representing the number of equivalent common shares to be issued in lieu of the issuance of Common Shares in accordance with the provisions of Section 11(a)(iii), (iv) when appropriate, after receipt of such certificates, cause the same to be delivered to or upon the order of the registered holder of such Right Certificate, registered in such name or names as may be designated by such holder, (v) when appropriate, requisition from the Company the amount of cash to be paid in lieu of the issuance of fractional shares in accordance with the provisions of Section 14 or in lieu of the issuance of Common Shares in accordance with the provisions of Section 11(a)(iii), (vi) when appropriate, after receipt, deliver such cash to or upon the order of the registered holder of such Right Certificate, and (vii) when appropriate, deliver any due bill or other instrument provided to the Rights Agent by the Company for delivery to the registered holder of such Right Certificate as provided by Section 11(l).

(c) In case the registered holder of any Right Certificate exercises less than all the Rights evidenced thereby, the Company will prepare, execute and deliver a new Right Certificate evidencing Rights equivalent to the Rights remaining unexercised and the Rights Agent will countersign and deliver such new Right Certificate to the registered holder of such Right Certificate or to his duly authorized assigns, subject to the provisions of Section 14.

(d) Notwithstanding anything in this Agreement to the contrary, neither the Rights Agent nor the Company will be obligated to undertake any action with respect to any purported transfer, split up, combination or exchange of any Right Certificate pursuant to Section 6 or exercise of a Right Certificate as set forth in this Section 7 unless the registered holder of such Right Certificate has (i) completed and signed the certificate following the form of assignment or

the form of election to purchase, as applicable, set forth on the reverse side of the Right Certificate surrendered for such transfer, split up, combination, exchange or exercise and (ii) provided such additional evidence of the identity of the Beneficial Owner (or former Beneficial Owner) or Affiliates or Associates thereof as the Company may reasonably request.

8. CANCELLATION AND DESTRUCTION OF RIGHT CERTIFICATES. All Right Certificates surrendered for the purpose of exercise, transfer, split up, combination or exchange will, if surrendered to the Company or to any of its stock transfer agents, be delivered to the Rights Agent for cancellation or in canceled form, or, if surrendered to the Rights Agent, will be canceled by it, and no Right Certificates will be issued in lieu thereof except as expressly permitted by the provisions of this Agreement. The Company will deliver to the Rights Agent for cancellation and retirement, and the Rights Agent will so cancel and retire, any other Right Certificate purchased or acquired by the Company otherwise than upon the exercise thereof. The Rights Agent will deliver all canceled Right Certificates to the Company, or will, at the written request of the Company, destroy such canceled Right Certificates, and in such case will deliver a certificate of destruction thereof to the Company.

9. COMPANY COVENANTS CONCERNING SECURITIES AND RIGHTS. The Company covenants and agrees that:

(a) It will cause to be reserved and kept available out of its authorized and unissued Preferred Shares or any Preferred Shares held in its treasury, a number of Preferred Shares that will be sufficient to permit the exercise in full of all outstanding Rights in accordance with Section 7.

(b) So long as the Preferred Shares (and, following the occurrence of a Triggering Event, Common Shares and/or other securities) issuable upon the exercise of the Rights may be listed on a national securities exchange, or quoted on Nasdaq, it will endeavor to cause, from and after such time as the Rights become exercisable, all securities reserved for issuance upon the exercise of Rights to be listed on such exchange, or quoted on Nasdaq, upon official notice of issuance upon such exercise.

(c) It will take all such action as may be necessary to ensure that all Preferred Shares (and, following the occurrence of a Triggering Event, Common Shares and/or other securities) delivered upon exercise of Rights, at the time of delivery of the certificates for such securities, will be (subject to payment of the Purchase Price) duly authorized, validly issued, fully paid and nonassessable securities.

(d) It will pay when due and payable any and all federal and state transfer taxes and charges that may be payable in respect of the issuance or delivery of the Right Certificates and of any certificates representing securities issued upon the exercise of Rights; PROVIDED, HOWEVER, that the Company will not be required to pay any transfer tax or charge which may be payable in respect of any transfer or delivery of Right Certificates to a person other than, or the issuance or delivery of certificates or depositary receipts representing securities issued upon the exercise of Rights in a name other than that of, the registered holder of the Right Certificate evidencing Rights surrendered for exercise, or to issue or deliver any certificates or depositary receipts representing securities issued upon the exercise of any Rights until any such tax or charge has been

paid (any such tax or charge being payable by the holder of such Right Certificate at the time of surrender) or until it has been established to the Company's reasonable satisfaction that no such tax is due.

(e) It will use its best efforts (i) to file on an appropriate form, as soon as practicable following the later of the Share Acquisition Date and the Distribution Date, a registration statement under the Securities Act with respect to the securities issuable upon exercise of the Rights, (ii) to cause such registration statement to become effective as soon as practicable after such filing, and (iii) to cause such registration statement to remain effective (with a prospectus at all times meeting the requirements of the Securities Act) until the earlier of (A) the date as of which the Rights are no longer exercisable for such securities and (B) the Expiration Date. The Company will also take such action as may be appropriate under, or to ensure compliance with, the securities or "blue sky" laws of the various states in connection with the exercisability of the Rights. The Company may temporarily suspend, for a period of time after the date set forth in clause (i) of the first sentence of this Section 9(e), the exercisability of the Rights in order to prepare and file such registration statement and to permit it to become effective. Upon any such suspension, the Company will issue a public announcement stating that the exercisability of the Rights has been temporarily suspended, as well as a public announcement at such time as the suspension is no longer in effect. In addition, if the Company determines that a registration statement should be filed under the Securities Act or any state securities laws following the Distribution Date, the Company may temporarily suspend the exercisability of the Rights in each relevant jurisdiction until such time as a registration statement has been declared effective and, upon any such suspension, the Company will issue a public announcement stating that the exercisability of the Rights has been temporarily suspended, as well as a public announcement at such time as the suspension is no longer in effect. Notwithstanding anything in this Agreement to the contrary, the Rights will not be exercisable in any jurisdiction if the requisite registration or qualification in such jurisdiction has not been effected or the exercise of the Rights is not permitted under applicable law.

(f) Notwithstanding anything in this Agreement to the contrary, after the later of the Share Acquisition Date and the Distribution Date it will not take (or permit any Subsidiary to take) any action if at the time such action is taken it is reasonably foreseeable that such action will eliminate or otherwise diminish the benefits intended to be afforded by the Rights.

(g) In the event that the Company is obligated to issue other securities of the Company and/or pay cash pursuant to Section 11, 13, 14 or 24 it will make all arrangements necessary so that such other securities and/or cash are available for distribution by the Rights Agent, if and when appropriate.

10. RECORD DATE. Each Person in whose name any certificate representing Preferred Shares (or Common Shares and/or other securities, as the case may be) is issued upon the exercise of Rights will for all purposes be deemed to have become the holder of record of the Preferred Shares (or Common Shares and/or other securities, as the case may be) represented thereby on, and such certificate will be dated, the date upon which the Right Certificate evidencing such Rights was duly surrendered and payment of the Purchase Price (and all

applicable transfer taxes) was made; PROVIDED, HOWEVER, that if the date of such surrender and payment is a date upon which the transfer books of the Company for the Preferred Shares (or Common Shares and/or other securities, as the case may be) are closed, such Person will be deemed to have become the record holder of such securities on, and such certificate will be dated, the next succeeding Business Day on which the transfer books of the Company for the Preferred Shares (or Common Shares and/or other securities, as the case may be) are open. Prior to the exercise of the Rights evidenced thereby, the holder of a Right Certificate will not be entitled to any rights of a holder of any security for which the Rights are or may become exercisable, including, without limitation, the right to vote, to receive dividends or other distributions, or to exercise any preemptive rights, and will not be entitled to receive any notice of any proceedings of the Company, except as provided herein.

11. ADJUSTMENT OF PURCHASE PRICE, NUMBER AND KIND OF SECURITIES OR NUMBER OF RIGHTS. The Purchase Price, the number and kind of securities issuable upon exercise of each Right and the number of Rights outstanding are subject to adjustment from time to time as provided in this Section 11.

(a) (i) In the event that the Company at any time after the Record Date (A) declares a dividend on the Preferred Shares payable in Preferred Shares, (B) subdivides the outstanding Preferred Shares, (C) combines the outstanding Preferred Shares into a smaller number of Preferred Shares, or (D) issues any shares of its capital stock in a reclassification of the Preferred Shares (including any such reclassification in connection with a consolidation or merger in which the Company is the continuing or surviving corporation), except as otherwise provided in this Section 11(a), the Purchase Price in effect at the time of the record date for such dividend or of the effective date of such subdivision, combination or reclassification and/or the number and/or kind of shares of capital stock issuable on such date upon exercise of a Right, will be proportionately adjusted so that the holder of any Right exercised after such time is entitled to receive upon payment of the Purchase Price then in effect the aggregate number and kind of shares of capital stock which, if such Right had been exercised immediately prior to such date and at a time when the transfer books of the Company for the Preferred Shares were open, the holder of such Right would have owned upon such exercise (and, in the case of a reclassification, would have retained after giving effect to such reclassification) and would have been entitled to receive by virtue of such dividend, subdivision, combination or reclassification; PROVIDED, HOWEVER, that in no event shall the consideration to be paid upon the exercise of one Right be less than the aggregate par value of the shares of capital stock issuable upon exercise of one Right. If an event occurs which would require an adjustment under both this Section 11(a)(i) and Section 11(a)(ii) or Section 13, the adjustment provided for in this Section 11(a)(i) will be in addition to, and will be made prior to, any adjustment required pursuant to Section 11(a)(ii) or Section 13.

(ii) Subject to the provisions of Section 24, if:

(A) any Person becomes an Acquiring Person; or

(B) any Acquiring Person or any Affiliate or Associate of any Acquiring Person, directly or indirectly, (1) merges into the Company or otherwise combines with the Company and the Company is the continuing or surviving corporation of such merger or

combination (other than in a transaction subject to Section 13), (2) merges or otherwise combines with any Subsidiary of the Company, (3) in one or more transactions (otherwise than in connection with the exercise, exchange or conversion of securities exercisable or exchangeable for or convertible into shares of any class of capital stock of the Company or any of its Subsidiaries) transfers cash, securities or any other property to the Company or any of its Subsidiaries in exchange (in whole or in part) for shares of any class of capital stock of the Company or any of its Subsidiaries or for securities exercisable or exchangeable for or convertible into shares of any class of capital stock of the Company or any of its Subsidiaries, or otherwise obtains from the Company or any of its Subsidiaries, with or without consideration, any additional shares of any class of capital stock of the Company or any of its Subsidiaries or securities exercisable or exchangeable for or convertible into shares of any class of capital stock of the Company or any of its Subsidiaries (otherwise than as part of a pro rata distribution to all holders of shares of any class of capital stock of the Company, or any of its Subsidiaries), (4) sells, purchases, leases, exchanges, mortgages, pledges, transfers or otherwise disposes (in one or more transactions) to, from, with or of, as the case may be, the Company or any of its Subsidiaries (otherwise than in a transaction subject to Section 13), any property, including securities, on terms and conditions less favorable to the Company than the Company would be able to obtain in an arm's-length transaction with an unaffiliated third party, (5) receives any compensation from the Company or any of its Subsidiaries other than compensation as a director or a regular full-time employee, in either case at rates consistent with the Company's (or its Subsidiaries') past practices, or (6) receives the benefit, directly or indirectly (except proportionately as a shareholder), of any loans, advances, guarantees, pledges or other financial assistance or any tax credits or other tax advantage provided by the Company or any of its Subsidiaries; or

(C) during such time as there is an Acquiring Person, there is any reclassification of securities of the Company (including any reverse stock split), or any recapitalization of the Company, or any merger or consolidation of the Company with any of its Subsidiaries, or any other transaction or series of transactions involving the Company or any of its Subsidiaries (whether or not with or into or otherwise involving an Acquiring Person), other than a transaction subject to Section 13, which has the effect, directly or indirectly, of increasing by more than 1% the proportionate share of the outstanding shares of any class of equity securities of the Company or any of its Subsidiaries, or of securities exercisable or exchangeable for or convertible into equity securities of the Company or any of its Subsidiaries, of which an Acquiring Person, or any Affiliate or Associate of any Acquiring Person, is the Beneficial Owner;

then, and in each such case, from and after the latest of the Distribution Date, the Share Acquisition Date and the date of the occurrence of such Flip-in Event, proper provision will be made so that each holder of a Right, except as provided below, will thereafter have the right to receive, upon exercise thereof in accordance with the terms of this Agreement at an exercise price per Right equal to the product of the then-current Purchase Price multiplied by the number of one one-hundredths of a Preferred Share for which a Right was exercisable immediately prior to the date of the occurrence of such Flip-in Event (or, if any other Flip-in Event shall have previously occurred, the product of the then-current Purchase Price multiplied by the number of one one-hundredths of a Preferred Share for which a Right was exercisable immediately prior to the date of the

first occurrence of a Flip-in Event), in lieu of Preferred Shares, such number of Common Shares as equals the result obtained by (x) multiplying the then-current Purchase Price by the number of one one-hundredths of a Preferred Share for which a Right was exercisable immediately prior to the date of the occurrence of such Flip-in Event (or, if any other Flip-in Event shall have previously occurred, multiplying the then-current Purchase Price by the number of one one-hundredths of a Preferred Share for which a Right was exercisable immediately prior to the date of the first occurrence of a Flip-in Event), and dividing that product by (y) 50% of the current per share market price of the Common Shares (determined pursuant to Section 11(d)) on the date of the occurrence of such Flip-in Event. Notwithstanding anything in this Agreement to the contrary, from and after the first occurrence of a Flip-in Event, any Rights that are Beneficially Owned by (A) any Acquiring Person (or any Affiliate or Associate of any Acquiring Person), (B) a transferee of any Acquiring Person (or any such Affiliate or Associate) who becomes a transferee after the occurrence of a Flip-in Event, or (C) a transferee of any Acquiring Person (or any such Affiliate or Associate) who became a transferee prior to or concurrently with the occurrence of a Flip-in Event pursuant to either (1) a transfer from an Acquiring Person to holders of its equity securities or to any Person with whom it has any continuing agreement, arrangement or understanding regarding the transferred Rights or (2) a transfer which the Directors of the Company have determined is part of a plan, arrangement or understanding which has the purpose or effect of avoiding the provisions of this Section 11(a)(ii), and subsequent transferees of any of such Persons, will be void without any further action and any holder of such Rights will thereafter have no rights whatsoever with respect to such Rights under any provision of this Agreement. The Company will use all reasonable efforts to ensure that the provisions of this Section 11(a)(ii) are complied with, but will have no liability to any holder of Right Certificates or any other Person as a result of its failure to make any determinations with respect to an Acquiring Person or its Affiliates, Associates or transferees hereunder. Upon the occurrence of a Flip-in Event, no Right Certificate that represents Rights that are or have become void pursuant to the provisions of this Section 11(a)(ii) will thereafter be issued pursuant to Section 3 or Section 6, and any Right Certificate delivered to the Rights Agent that represents Rights that are or have become void pursuant to the provisions of this Section 11(a)(ii) will be canceled. Upon the occurrence of a Flip-over Event, any Rights that shall not have been previously exercised pursuant to this Section 11(a)(ii) shall thereafter be exercisable only pursuant to Section 13 and not pursuant to this Section 11(a)(ii).

(iii) Upon the occurrence of a Flip-in Event, if there are not sufficient Common Shares authorized but unissued or issued but not outstanding to permit the issuance of all the Common Shares issuable in accordance with Section 11(a)(ii) upon the exercise of a Right, the Directors of the Company will use their best efforts promptly to authorize and, subject to the provisions of Section 9(e), make available for issuance additional Common Shares or other equity securities of the Company having equivalent voting rights and an equivalent value (as determined in good faith by the Directors of the Company) to the Common Shares (for purposes of this Section 11(a)(iii), "EQUIVALENT COMMON SHARES"). In the event that equivalent common shares are so authorized, upon the exercise of a Right in accordance with the provisions of Section 7, the registered holder will be entitled to receive (A) Common Shares, to the extent any are available, and (B) a number of equivalent common shares, which the Directors of the Company have determined in good

faith to have a value equivalent to the excess of (x) the aggregate current per share market value on the date of the occurrence of the most recent Flip-in Event of all the Common Shares issuable in accordance with Section 11(a)(ii) upon the exercise of a Right (the "EXERCISE VALUE") over (y) the aggregate current per share market value on the date of the occurrence of the most recent Flip-in Event of any Common Shares available for issuance upon the exercise of such Right; PROVIDED, HOWEVER, that if at any time after 90 calendar days after the latest of the Share Acquisition Date, the Distribution Date and the date of the occurrence of the most recent Flip-in Event, there are not sufficient Common Shares and/or equivalent common shares available for issuance upon the exercise of a Right, then the Company will be obligated to deliver, upon the surrender of such Right and without requiring payment of the Purchase Price, Common Shares (to the extent available), equivalent common shares (to the extent available) and then cash (to the extent permitted by applicable law and any agreements or instruments to which the Company is a party in effect immediately prior to the Share Acquisition Date), which securities and cash have an aggregate value equal to the excess of (1) the Exercise Value over (2) the product of the then-current Purchase Price multiplied by the number of one one-hundredths of a Preferred Share for which a Right was exercisable immediately prior to the date of the occurrence of the most recent Flip-in Event (or, if any other Flip-in Event shall have previously occurred, the product of the then-current Purchase Price multiplied by the number of one one-hundredths of a Preferred Share for which a Right would have been exercisable immediately prior to the date of the occurrence of such Flip-in Event if no other Flip-in Event had previously occurred). To the extent that any legal or contractual restrictions prevent the Company from paying the full amount of cash payable in accordance with the foregoing sentence, the Company will pay to holders of the Rights as to which such payments are being made all amounts which are not then restricted on a pro rata basis and will continue to make payments on a pro rata basis as promptly as funds become available until the full amount due to each such Rights holder has been paid.

(b) In the event that the Company fixes a record date for the issuance of rights, options or warrants to all holders of Preferred Shares entitling them (for a period expiring within 45 calendar days after such record date) to subscribe for or purchase Preferred Shares (or securities having equivalent rights, privileges and preferences as the Preferred Shares (for purposes of this Section 11(b), "EQUIVALENT PREFERRED SHARES")) or securities convertible into Preferred Shares or equivalent preferred shares at a price per Preferred Share or equivalent preferred share (or having a conversion price per share, if a security convertible into Preferred Shares or equivalent preferred shares) less than the current per share market price of the Preferred Shares (determined pursuant to Section 11(d)) on such record date, the Purchase Price to be in effect after such record date will be determined by multiplying the Purchase Price in effect immediately prior to such record date by a fraction, the numerator of which is the number of Preferred Shares outstanding on such record date plus the number of Preferred Shares which the aggregate offering price of the total number of Preferred Shares and/or equivalent preferred shares so to be offered (and/or the aggregate initial conversion price of the convertible securities so to be offered) would purchase at such current per share market price and the denominator of which is the number of Preferred Shares outstanding on such record date plus the number of additional Preferred Shares and/or equivalent preferred shares to be offered for subscription or purchase (or into which the convertible securities so to be offered are initially convertible); PROVIDED, HOWEVER, that in no event shall the consideration to be paid upon the exercise of one

Right be less than the aggregate par value of the shares of capital stock issuable upon exercise of one Right. In case such subscription price may be paid in a consideration part or all of which is in a form other than cash, the value of such consideration will be as determined in good faith by the Directors of the Company, whose determination will be described in a statement filed with the Rights Agent. Preferred Shares owned by or held for the account of the Company will not be deemed outstanding for the purpose of any such computation. Such adjustment will be made successively whenever such a record date is fixed, and in the event that such rights, options or warrants are not so issued, the Purchase Price will be adjusted to be the Purchase Price which would then be in effect if such record date had not been fixed.

(c) In the event that the Company fixes a record date for the making of a distribution to all holders of Preferred Shares (including any such distribution made in connection with a consolidation or merger in which the Company is the continuing or surviving corporation) of evidences of indebtedness, cash (other than a regular periodic cash dividend), assets, stock (other than a dividend payable in Preferred Shares) or subscription rights, options or warrants (excluding those referred to in Section 11(b)), the Purchase Price to be in effect after such record date will be determined by multiplying the Purchase Price in effect immediately prior to such record date by a fraction, the numerator of which is the current per share market price of the Preferred Shares (as determined pursuant to Section 11(d)) on such record date or, if earlier, the date on which Preferred Shares begin to trade on an ex-dividend or when issued basis for such distribution, less the fair market value (as determined in good faith by the Directors of the Company, whose determination will be described in a statement filed with the Rights Agent) of the portion of the evidences of indebtedness, cash, assets or stock so to be distributed or of such subscription rights, options or warrants applicable to one Preferred Share, and the denominator of which is such current per share market price of the Preferred Shares; PROVIDED, HOWEVER, that in no event shall the consideration to be paid upon the exercise of one Right be less than the aggregate par value of the shares of capital stock issuable upon exercise of one Right. Such adjustments will be made successively whenever such a record date is fixed; and in the event that such distribution is not so made, the Purchase Price will again be adjusted to be the Purchase Price which would then be in effect if such record date had not been fixed.

(d) (i) For the purpose of any computation hereunder, the “current per share market price” of Common Shares on any date will be deemed to be the average of the daily closing prices per share of such Common Shares for the 30 consecutive Trading Days immediately prior to such date; PROVIDED, HOWEVER, that in the event that the current per share market price of the Common Shares is determined during a period following the announcement by the issuer of such Common Shares of (A) a dividend or distribution on such Common Shares payable in such Common Shares or securities convertible into such Common Shares (other than the Rights) or (B) any subdivision, combination or reclassification of such Common Shares, and prior to the expiration of 30 Trading Days after the ex-dividend date for such dividend or distribution, or the record date for such subdivision, combination or reclassification, then, and in each such case, the current per share market price will be appropriately adjusted to take into account ex-dividend trading or to reflect the current per share market price per Common Share equivalent. The closing price for each day will be the last sale price, regular way, or, in case no such sale takes place on such day, the average of the closing bid and asked prices, regular way, in either case as reported in the principal consolidated transaction reporting system with respect to securities listed or admitted to trading on the New York Stock Exchange or, if

the Common Shares are not listed or admitted to trading on the New York Stock Exchange, as reported in the principal consolidated transaction reporting system with respect to securities listed on the principal national securities exchange on which the Common Shares are listed or admitted to trading or, if the Common Shares are not listed or admitted to trading on any national securities exchange, the last quoted price or, if not so quoted, the average of the high bid and low asked prices in the over-the-counter market, as reported by Nasdaq or such other system then in use, or, if on any such date the Common Shares are not quoted by any such organization, the average of the closing bid and asked prices as furnished by a professional market maker making a market in the Common Shares selected by the Directors of the Company. If the Common Shares are not publicly held or not so listed or traded, or are not the subject of available bid and asked quotes, “current per share market price” will mean the fair value per share as determined in good faith by the Directors of the Company, whose determination will be described in a statement filed with the Rights Agent.

(ii) For the purpose of any computation hereunder, the “current per share market price” of the Preferred Shares will be determined in the same manner as set forth above for Common Shares in Section 11(d)(i), other than the last sentence thereof. If the current per share market price of the Preferred Shares cannot be determined in the manner provided above, the “current per share market price” of the Preferred Shares will be conclusively deemed to be an amount equal to the current per share market price of the Common Shares multiplied by one hundred (as such number may be appropriately adjusted to reflect events such as stock splits, stock dividends, recapitalizations or similar transactions relating to the Common Shares occurring after the date of this Agreement). If neither the Common Shares nor the Preferred Shares are publicly held or so listed or traded, or the subject of available bid and asked quotes, “current per share market price” of the Preferred Shares will mean the fair value per share as determined in good faith by the Directors of the Company, whose determination will be described in a statement filed with the Rights Agent. For all purposes of this Agreement, the current per share market price of one one-hundredth of a Preferred Share will be equal to the current per share market price of one Preferred Share divided by one hundred.

(e) Except as set forth below, no adjustment in the Purchase Price will be required unless such adjustment would require an increase or decrease of at least 1% in such price; PROVIDED, HOWEVER, that any adjustments which by reason of this Section 11(e) are not required to be made will be carried forward and taken into account in any subsequent adjustment. All calculations under this Section 11 will be made to the nearest cent or to the nearest one one- millionth of a Preferred Share or one ten-thousandth of a Common Share or other security, as the case may be. Notwithstanding the first sentence of this Section 11(e), any adjustment required by this Section 11 will be made no later than the earlier of (i) three years from the date of the transaction which requires such adjustment and (ii) the Expiration Date.

(f) If as a result of an adjustment made pursuant to Section 11(a), the holder of any Right thereafter exercised becomes entitled to receive any securities of the Company other than Preferred Shares, thereafter the number and/or kind of such other securities so receivable upon exercise of any Right (and/or the Purchase Price in respect thereof) will be subject to adjustment from time to time in a manner and on terms as nearly equivalent as practicable to the provisions with respect to the Preferred Shares (and the Purchase Price in respect thereof) contained in this

Section 11, and the provisions of Sections 7, 9, 10, 13 and 14 with respect to the Preferred Shares (and the Purchase Price in respect thereof) will apply on like terms to any such other securities (and the Purchase Price in respect thereof).

(g) All Rights originally issued by the Company subsequent to any adjustment made to the Purchase Price hereunder will evidence the right to purchase, at the adjusted Purchase Price, the number of one one-hundredths of a Preferred Share issuable from time to time hereunder upon exercise of the Rights, all subject to further adjustment as provided herein.

(h) Unless the Company has exercised its election as provided in Section 11(i), upon each adjustment of the Purchase Price pursuant to Section 11(b) or Section 11(c), each Right outstanding immediately prior to the making of such adjustment will thereafter evidence the right to purchase, at the adjusted Purchase Price, that number of one one-hundredths of a Preferred Share (calculated to the nearest one one-millionth of a Preferred Share) obtained by (i) multiplying (x) the number of one one-hundredths of a Preferred Share issuable upon exercise of a Right immediately prior to such adjustment of the Purchase Price by (y) the Purchase Price in effect immediately prior to such adjustment of the Purchase Price and (ii) dividing the product so obtained by the Purchase Price in effect immediately after such adjustment of the Purchase Price.

(i) The Company may elect, on or after the date of any adjustment of the Purchase Price, to adjust the number of Rights in substitution for any adjustment in the number of one one-hundredths of a Preferred Share issuable upon the exercise of a Right. Each of the Rights outstanding after such adjustment of the number of Rights will be exercisable for the number of one one-hundredths of a Preferred Share for which a Right was exercisable immediately prior to such adjustment. Each Right held of record prior to such adjustment of the number of Rights will become that number of Rights (calculated to the nearest one ten-thousandth) obtained by dividing the Purchase Price in effect immediately prior to adjustment of the Purchase Price by the Purchase Price in effect immediately after adjustment of the Purchase Price. The Company will make a public announcement of its election to adjust the number of Rights, indicating the record date for the adjustment, and, if known at the time, the amount of the adjustment to be made. Such record date may be the date on which the Purchase Price is adjusted or any day thereafter, but, if the Right Certificates have been issued, will be at least 10 calendar days later than the date of the public announcement. If Right Certificates have been issued, upon each adjustment of the number of Rights pursuant to this Section 11(i), the Company will, as promptly as practicable, cause to be distributed to holders of record of Right Certificates on such record date Right Certificates evidencing, subject to the provisions of Section 14, the additional Rights to which such holders are entitled as a result of such adjustment, or, at the option of the Company, will cause to be distributed to such holders of record in substitution and replacement for the Right Certificates held by such holders prior to the date of adjustment, and upon surrender thereof if required by the Company, new Right Certificates evidencing all the Rights to which such holders are entitled after such adjustment. Right Certificates so to be distributed will be issued, executed, and countersigned in the manner provided for herein (and may bear, at the option of the Company, the adjusted Purchase Price) and will be registered in the names of the holders of record of Right Certificates on the record date specified in the public announcement.

(j) Without respect to any adjustment or change in the Purchase Price and/or the number and/or kind of securities issuable upon the exercise of the Rights, the Right Certificates

theretofore and thereafter issued may continue to express the Purchase Price and the number and kind of securities which were expressed in the initial Right Certificate issued hereunder.

(k) Before taking any action that would cause an adjustment reducing the Purchase Price below one one-hundredth of the then par value, if any, of the Preferred Shares or below the then par value, if any, of any other securities of the Company issuable upon exercise of the Rights, the Company will take any corporate action which may, in the opinion of its counsel, be necessary in order that the Company may validly and legally issue fully paid and nonassessable Preferred Shares or such other securities, as the case may be, at such adjusted Purchase Price.

(l) In any case in which this Section 11 otherwise requires that an adjustment in the Purchase Price be made effective as of a record date for a specified event, the Company may elect to defer until the occurrence of such event the issuance to the holder of any Right exercised after such record date the number of Preferred Shares or other securities of the Company, if any, issuable upon such exercise over and above the number of Preferred Shares or other securities of the Company, if any, issuable upon such exercise on the basis of the Purchase Price in effect prior to such adjustment; PROVIDED, HOWEVER, that the Company delivers to such holder a due bill or other appropriate instrument evidencing such holder's right to receive such additional Preferred Shares or other securities upon the occurrence of the event requiring such adjustment.

(m) Notwithstanding anything in this Agreement to the contrary, the Company will be entitled to make such reductions in the Purchase Price, in addition to those adjustments expressly required by this Section 11, as and to the extent that in its good faith judgment the Directors of the Company determine to be advisable in order that any (i) consolidation or subdivision of the Preferred Shares, (ii) issuance wholly for cash of Preferred Shares at less than the current per share market price therefor, (iii) issuance wholly for cash of Preferred Shares or securities which by their terms are convertible into or exchangeable for Preferred Shares, (iv) stock dividends, or (v) issuance of rights, options or warrants referred to in this Section 11, hereafter made by the Company to holders of its Preferred Shares is not taxable to such shareholders.

(n) Notwithstanding anything in this Agreement to the contrary, in the event that the Company at any time after the Record Date prior to the Distribution Date (i) pays a dividend on the outstanding Common Shares payable in Common Shares, (ii) subdivides the outstanding Common Shares, (iii) combines the outstanding Common Shares into a smaller number of shares, or (iv) issues any shares of its capital stock in a reclassification of the outstanding Common Shares (including any such reclassification in connection with a consolidation or merger in which the Company is the continuing or surviving corporation), the number of Rights associated with each Common Share then outstanding, or issued or delivered thereafter but prior to the Distribution Date, will be proportionately adjusted so that the number of Rights thereafter associated with each Common Share following any such event equals the result obtained by multiplying the number of Rights associated with each Common Share immediately prior to such event by a fraction the numerator of which is the total number of Common Shares outstanding immediately prior to the occurrence of the event and the denominator of which is the total number of Common Shares outstanding immediately following the occurrence of such event. The adjustments provided for in this Section 11(n) will be made successively whenever such a dividend is paid or such a subdivision, combination or reclassification is effected.

12. CERTIFICATE OF ADJUSTED PURCHASE PRICE OR NUMBER OF SECURITIES. Whenever an adjustment is made as provided in Section 11 or Section 13, the Company will promptly (a) prepare a certificate setting forth such adjustment and a brief statement of the facts accounting for such adjustment, (b) file with the Rights Agent and with each transfer agent for the Preferred Shares and the Common Shares a copy of such certificate, and (c) if such adjustment is made after the Distribution Date, mail a brief summary of such adjustment to each holder of a Right Certificate in accordance with Section 26.

13. CONSOLIDATION, MERGER OR SALE OR TRANSFER OF ASSETS OR EARNING POWER. (a) In the event that:

(i) at any time after a Person has become an Acquiring Person, the Company consolidates with, or merges with or into, any other Person and the Company is not the continuing or surviving corporation of such consolidation or merger; or

(ii) at any time after a Person has become an Acquiring Person, any Person consolidates with the Company, or merges with or into the Company, and the Company is the continuing or surviving corporation of such merger or consolidation and, in connection with such merger or consolidation, all or part of the Common Shares is changed into or exchanged for stock or other securities of any other Person or cash or any other property; or

(iii) at any time after a Person has become an Acquiring Person, the Company, directly or indirectly, sells or otherwise transfers (or one or more of its Subsidiaries sells or otherwise transfers), in one or more transactions, assets or earning power (including without limitation securities creating any obligation on the part of the Company and/or any of its Subsidiaries) representing in the aggregate more than 50% of the assets or earning power of the Company and its Subsidiaries (taken as a whole) to any Person or Persons other than the Company or one or more of its wholly owned Subsidiaries;

then, and in each such case, proper provision will be made so that from and after the latest of the Share Acquisition Date, the Distribution Date and the date of the occurrence of such Flip-over Event (A) each holder of a Right thereafter has the right to receive, upon the exercise thereof in accordance with the terms of this Agreement at an exercise price per Right equal to the product of the then-current Purchase Price multiplied by the number of one one-hundredths of a Preferred Share for which a Right was exercisable immediately prior to the Share Acquisition Date, such number of duly authorized, validly issued, fully paid, nonassessable and freely tradeable Common Shares of the Issuer, free and clear of any liens, encumbrances and other adverse claims and not subject to any rights of call or first refusal, as equals the result obtained by (x) multiplying the then-current Purchase Price by the number of one one-hundredths of a Preferred Share for which a Right is exercisable immediately prior to the Share Acquisition Date and dividing that product by (y) 50% of the current per share market price of the Common Shares of the Issuer (determined pursuant to Section 11(d)), on the date of the occurrence of such Flip-over Event; (B) the Issuer will thereafter be liable for, and will assume, by virtue of the occurrence of such Flip-over Event, all the obligations and duties of the Company pursuant to this Agreement; (C) the term "Company" will thereafter be deemed to refer to the Issuer; and (D) the Issuer will take such steps (including without limitation the reservation of a sufficient number of its Common Shares to permit the exercise of all outstanding Rights) in connection with such

consummation as may be necessary to assure that the provisions hereof are thereafter applicable, as nearly as reasonably may be possible, in relation to its Common Shares thereafter deliverable upon the exercise of the Rights.

(b) For purposes of this Section 13, “Issuer” means (i) in the case of any Flip-over Event described in Sections 13(a)(i) or (ii) above, the Person that is the continuing, surviving, resulting or acquiring Person (including the Company as the continuing or surviving corporation of a transaction described in Section 13(a)(ii) above), and (ii) in the case of any Flip-over Event described in Section 13(a)(iii) above, the Person that is the party receiving the greatest portion of the assets or earning power (including without limitation securities creating any obligation on the part of the Company and/or any of its Subsidiaries) transferred pursuant to such transaction or transactions; PROVIDED, HOWEVER, that, in any such case, (A) if (1) no class of equity security of such Person is, at the time of such merger, consolidation or transaction and has been continuously over the preceding 12-month period, registered pursuant to Section 12 of the Exchange Act, and (2) such Person is a Subsidiary, directly or indirectly, of another Person, a class of equity security of which is and has been so registered, the term “Issuer” means such other Person; and (B) in case such Person is a Subsidiary, directly or indirectly, of more than one Person, a class of equity security of two or more of which are and have been so registered, the term “Issuer” means whichever of such Persons is the issuer of the equity security having the greatest aggregate market value. Notwithstanding the foregoing, if the Issuer in any of the Flip-over Events listed above is not a corporation or other legal entity having outstanding equity securities, then, and in each such case, (x) if the Issuer is directly or indirectly wholly owned by a corporation or other legal entity having outstanding equity securities, then all references to Common Shares of the Issuer will be deemed to be references to the Common Shares of the corporation or other legal entity having outstanding equity securities which ultimately controls the Issuer, and (y) if there is no such corporation or other legal entity having outstanding equity securities, (I) proper provision will be made so that the Issuer creates or otherwise makes available for purposes of the exercise of the Rights in accordance with the terms of this Agreement, a kind or kinds of security or securities having a fair market value at least equal to the economic value of the Common Shares which each holder of a Right would have been entitled to receive if the Issuer had been a corporation or other legal entity having outstanding equity securities; and (II) all other provisions of this Agreement will apply to the issuer of such securities as if such securities were Common Shares.

(c) The Company will not consummate any Flip-over Event if, (i) at the time of or immediately after such Flip-over Event, there are or would be any rights, warrants, instruments or securities outstanding or any agreements or arrangements in effect which would eliminate or substantially diminish the benefits intended to be afforded by the Rights, (ii) prior to, simultaneously with or immediately after such Flip-over Event, the shareholders of the Person who constitutes, or would constitute, the Issuer for purposes of Section 13(a) shall have received a distribution of Rights previously owned by such Person or any of its Affiliates or Associates, or (iii) the form or nature of the organization of the Issuer would preclude or limit the exercisability of the Rights. In addition, the Company will not consummate any Flip-over Event unless the Issuer has a sufficient number of authorized Common Shares (or other securities as contemplated in Section 13(b) above) which have not been issued or reserved for issuance to permit the exercise in full of the Rights in accordance with this Section 13 and unless prior to such consummation the Company and the Issuer have executed and delivered to the Rights Agent a supplemental agreement providing for the terms set forth in subsections (a) and (b) of this Section 13 and further providing that as promptly as practicable after the consummation of any Flip-over Event, the Issuer will:

(A) prepare and file a registration statement under the Securities Act with respect to the Rights and the securities issuable upon exercise of the Rights on an appropriate form, and use its best efforts to cause such registration statement to (1) become effective as soon as practicable after such filing and (2) remain effective (with a prospectus at all times meeting the requirements of the Securities Act) until the Expiration Date;

(B) take all such action as may be appropriate under, or to ensure compliance with, the securities or “blue sky” laws of the various states in connection with the exercisability of the Rights; and

(C) deliver to holders of the Rights historical financial statements for the Issuer and each of its Affiliates which comply in all respects with the requirements for registration on Form 10 under the Exchange Act.

(d) The provisions of this Section 13 will similarly apply to successive mergers or consolidations or sales or other transfers. In the event that a Flip-over Event occurs at any time after the occurrence of a Flip-in Event, except for Rights that have become void pursuant to Section 11(a)(ii), Rights that shall not have been previously exercised will cease to be exercisable in the manner provided in Section 11(a)(ii) and will thereafter be exercisable in the manner provided in Section 13(a).

14. FRACTIONAL RIGHTS AND FRACTIONAL SECURITIES. (a) The Company will not be required to issue fractions of Rights or to distribute Right Certificates which evidence fractional Rights. In lieu of such fractional Rights, the Company will pay as promptly as practicable to the registered holders of the Right Certificates with regard to which such fractional Rights otherwise would be issuable, an amount in cash equal to the same fraction of the current market value of one Right. For the purposes of this Section 14(a), the current market value of one Right is the closing price of the Rights for the Trading Day immediately prior to the date on which such fractional Rights otherwise would have been issuable. The closing price for any day is the last sale price, regular way, or, in case no such sale takes place on such day, the average of the closing bid and asked prices, regular way, in either case as reported in the principal consolidated transaction reporting system with respect to securities listed or admitted to trading on the New York Stock Exchange or, if the Rights are not listed or admitted to trading on the New York Stock Exchange, as reported in the principal consolidated transaction reporting system with respect to securities listed on the principal national securities exchange on which the Rights are listed or admitted to trading or, if the Rights are not listed or admitted to trading on any national securities exchange, the last quoted price or, if not so quoted, the average of the high bid and low asked prices in the over-the-counter market, as reported by Nasdaq or such other system then in use, or, if on any such date the Rights are not quoted by any such organization, the average of the closing bid and asked prices as furnished by a professional market maker making a market in the Rights selected by the Directors of the Company. If the Rights are not publicly held or are not so listed or traded, or are not the subject of available bid and asked quotes, the current market value of one Right will mean the fair value thereof as determined in good faith by the Directors of the Company, whose determination will be described in a statement filed with the Rights Agent.

(b) The Company will not be required to issue fractions of Preferred Shares (other than fractions which are integral multiples of one one-hundredth of a Preferred Share) upon exercise of the Rights or to distribute certificates which evidence fractional Preferred Shares (other than fractions which are integral multiples of one one-hundredth of a Preferred Share). Fractions of Preferred Shares in integral multiples of one one-hundredth of a Preferred Share may, at the election of the Company, be evidenced by depositary receipts pursuant to an appropriate agreement between the Company and a depositary selected by it, provided that such agreement provides that the holders of such depositary receipts have all the rights, privileges and preferences to which they are entitled as beneficial owners of the Preferred Shares represented by such depositary receipts. In lieu of fractional Preferred Shares that are not integral multiples of one one-hundredth of a Preferred Share, the Company may pay to any Person to whom or which such fractional Preferred Shares would otherwise be issuable an amount in cash equal to the same fraction of the current market value of one Preferred Share. For purposes of this Section 14(b), the current market value of one Preferred Share is the closing price of the Preferred Shares (as determined in the same manner as set forth for Common Shares in the second sentence of Section 11(d)(i)) for the Trading Day immediately prior to the date of such exercise; PROVIDED, HOWEVER, that if the closing price of the Preferred Shares cannot be so determined, the closing price of the Preferred Shares for such Trading Day will be conclusively deemed to be an amount equal to the closing price of the Common Shares (determined pursuant to the second sentence of Section 11(d)(i)) for such Trading Day multiplied by one hundred (as such number may be appropriately adjusted to reflect events such as stock splits, stock dividends, recapitalizations or similar transactions relating to the Common Shares occurring after the date of this Agreement); PROVIDED FURTHER, HOWEVER, that if neither the Common Shares nor the Preferred Shares are publicly held or listed or admitted to trading on any national securities exchange, or the subject of available bid and asked quotes, the current market value of one Preferred Share will mean the fair value thereof as determined in good faith by the Directors of the Company, whose determination will be described in a statement filed with the Rights Agent.

(c) Following the occurrence of a Triggering Event, the Company will not be required to issue fractions of Common Shares or other securities issuable upon exercise or exchange of the Rights or to distribute certificates which evidence any such fractional securities. In lieu of issuing any such fractional securities, the Company may pay to any Person to whom or which such fractional securities would otherwise be issuable an amount in cash equal to the same fraction of the current market value of one such security. For purposes of this Section 14(c), the current market value of one Common Share or other security issuable upon the exercise or exchange of Rights is the closing price thereof (as determined in the same manner as set forth for Common Shares in the second sentence of Section 11(d)(i)) for the Trading Day immediately prior to the date of such exercise or exchange; PROVIDED, HOWEVER, that if neither the Common Shares nor any such other securities are publicly held or listed or admitted to trading on any national securities exchange, or the subject of available bid and asked quotes, the current market value of one Common Share or such other security will mean the fair value thereof as determined in good faith by the Directors of the Company, whose determination will mean the fair value thereof as will be described in a statement filed with the Rights Agent.

15. RIGHTS OF ACTION. All rights of action in respect of this Agreement, excepting the rights of action given to the Rights Agent under Section 18, are vested in the respective registered holders of the Right Certificates (and, prior to the Distribution Date, the registered holders of the Common Shares); and any registered holder of any Right Certificate (or, prior to

the Distribution Date, of the Common Shares), without the consent of the Rights Agent or of the holder of any other Right Certificate (or, prior to the Distribution Date, of the holder of any Common Shares), may in his own behalf and for his own benefit enforce, and may institute and maintain any suit, action or proceeding against the Company to enforce, or otherwise act in respect of, his right to exercise the Rights evidenced by such Right Certificate in the manner provided in such Right Certificate and in this Agreement. Without limiting the foregoing or any remedies available to the holders of Rights, it is specifically acknowledged that the holders of Rights would not have an adequate remedy at law for any breach of this Agreement and will be entitled to specific performance of the obligations under this Agreement, and injunctive relief against actual or threatened violations of the obligations of any Person subject to this Agreement.

16. AGREEMENT OF RIGHTS HOLDERS. Every holder of a Right by accepting the same consents and agrees with the Company and the Rights Agent and with every other holder of a Right that:

(a) Prior to the Distribution Date, the Rights are transferable only in connection with the transfer of the Common Shares;

(b) After the Distribution Date, the Right Certificates are transferable only on the registry books of the Rights Agent if surrendered at the principal office of the Rights Agent designated for such purpose, duly endorsed or accompanied by a proper instrument of transfer;

(c) The Company and the Rights Agent may deem and treat the person in whose name the Right Certificate (or, prior to the Distribution Date, the associated Common Share certificate) is registered as the absolute owner thereof and of the Rights evidenced thereby (notwithstanding any notations of ownership or writing on the Right Certificate or the associated Common Share certificate made by anyone other than the Company or the Rights Agent) for all purposes whatsoever, and neither the Company nor the Rights Agent will be affected by any notice to the contrary;

(d) Such holder expressly waives any right to receive any fractional Rights and any fractional securities upon exercise or exchange of a Right, except as otherwise provided in Section 14.

(e) Notwithstanding anything in this Agreement to the contrary, neither the Company nor the Rights Agent will have any liability to any holder of a Right or other Person as a result of its inability to perform any of its obligations under this Agreement by reason of any preliminary or permanent injunction or other order, decree or ruling issued by a court of competent jurisdiction or by a governmental, regulatory or administrative agency or commission, or any statute, rule, regulation or executive order promulgated or enacted by any governmental authority, prohibiting or otherwise restraining performance of such obligation; PROVIDED, HOWEVER, that the Company will use its best efforts to have any such order, decree or ruling lifted or otherwise overturned as soon as possible.

17. RIGHT CERTIFICATE HOLDER NOT DEEMED A SHAREHOLDER. No holder, as such, of any Right Certificate will be entitled to vote, receive dividends, or be deemed for any purpose the

holder of Preferred Shares or any other securities of the Company which may at any time be issuable upon the exercise of the Rights represented thereby, nor will anything contained herein or in any Right Certificate be construed to confer upon the holder of any Right Certificate, as such, any of the rights of a shareholder of the Company or any right to vote for the election of Directors or upon any matter submitted to shareholders at any meeting thereof, or to give or withhold consent to any corporate action, or to receive notice of meetings or other actions affecting shareholders (except as provided in Section 25), or to receive dividends or subscription rights, or otherwise, until the Right or Rights evidenced by such Right Certificate shall have been exercised in accordance with the provisions of this Agreement or exchanged pursuant to the provisions of Section 24.

18. CONCERNING THE RIGHTS AGENT. (a) The Company will pay to the Rights Agent reasonable compensation for all services rendered by it hereunder and, from time to time, on demand of the Rights Agent, its reasonable expenses and counsel fees and other disbursements incurred in the administration and execution of this Agreement and the exercise and performance of its duties hereunder. The Company will also indemnify the Rights Agent for, and hold it harmless against, any loss, liability, suit, action, proceeding or expense, incurred without negligence, bad faith, or willful misconduct on the part of the Rights Agent, for anything done or omitted to be done by the Rights Agent in connection with the acceptance and administration of this Agreement, including the costs and expenses of defending against any claim of liability arising therefrom, directly or indirectly.

(b) The Rights Agent will be protected and will incur no liability for or in respect of any action taken, suffered, or omitted by it in connection with its administration of this Agreement in reliance upon any Right Certificate or certificate evidencing Preferred Shares or Common Shares or other securities of the Company, instrument of assignment or transfer, power of attorney, endorsement, affidavit, letter, notice, direction, consent, certificate, statement or other paper or document believed by it to be genuine and to be signed, executed, and, where necessary, verified or acknowledged, by the proper Person or Persons.

19. MERGER OR CONSOLIDATION OR CHANGE OF NAME OF RIGHTS AGENT. (a) Any corporation into which the Rights Agent or any successor Rights Agent may be merged or with which it may be consolidated, or any corporation resulting from any merger or consolidation to which the Rights Agent or any successor Rights Agent is a party, or any corporation succeeding to the corporate trust business of the Rights Agent or any successor Rights Agent, will be the successor to the Rights Agent under this Agreement without the execution or filing of any paper or any further act on the part of any of the parties hereto, provided that such corporation would be eligible for appointment as a successor Rights Agent under the provisions of Section 21. If at the time such successor Rights Agent succeeds to the agency created by this Agreement any of the Right Certificates shall have been countersigned but not delivered, any such successor Rights Agent may adopt the countersignature of the predecessor Rights Agent and deliver such Right Certificates so countersigned; and if at that time any of the Right Certificates shall not have been countersigned, any successor Rights Agent may countersign such Right Certificates either in the name of the predecessor Rights Agent or in the name of the successor Rights Agent; and in all such cases such Right Certificates will have the full force provided in the Right Certificates and in this Agreement.

(b) If at any time the name of the Rights Agent changes and at such time any of the Right Certificates have been countersigned but not delivered, the Rights Agent may adopt the countersignature under its prior name and deliver Right Certificates so countersigned; and if at that time any of the Right Certificates have not been countersigned, the Rights Agent may countersign such Right Certificates either in its prior name or in its changed name; and in all such cases such Right Certificates will have the full force provided in the Right Certificates and in this Agreement.

20. DUTIES OF RIGHTS AGENT. The Rights Agent undertakes the duties and obligations imposed by this Agreement upon the following terms and conditions, by all of which the Company and the holders of Right Certificates, by their acceptance thereof, will be bound:

(a) The Rights Agent may consult with legal counsel (who may be legal counsel for the Company), and the opinion of such counsel will be full and complete authorization and protection to the Rights Agent as to any action taken or omitted by it in good faith and in accordance with such opinion.

(b) Whenever in the performance of its duties under this Agreement the Rights Agent deems it necessary or desirable that any fact or matter be proved or established by the Company prior to taking or suffering any action hereunder, such fact or matter (unless other evidence in respect thereof be herein specifically prescribed) may be deemed to be conclusively proved and established by a certificate signed by any one of the Chairman, the President, any Vice President, the Secretary or the Treasurer of the Company and delivered to the Rights Agent, and such certificate will be full authorization to the Rights Agent for any action taken or suffered in good faith by it under the provisions of this Agreement in reliance upon such certificate.

(c) The Rights Agent will be liable hereunder only for its own negligence, bad faith or willful misconduct.

(d) The Rights Agent will not be liable for or by reason of any of the statements of fact or recitals contained in this Agreement or in the Right Certificates (except its countersignature thereof) or be required to verify the same, but all such statements and recitals are and will be deemed to have been made by the Company only.

(e) The Rights Agent will not be under any responsibility in respect of the validity of this Agreement or the execution and delivery hereof (except the due execution and delivery hereof by the Rights Agent) or in respect of the validity or execution of any Right Certificate (except its countersignature thereof); nor will it be responsible for any breach by the Company of any covenant contained in this Agreement or in any Right Certificate; nor will it be responsible for any adjustment required under the provisions of Sections 11 or 13 (including any adjustment which results in Rights becoming void) or responsible for the manner, method or amount of any such adjustment or the ascertaining of the existence of facts that would require any such adjustment (except with respect to the exercise of Rights evidenced by Right Certificates after actual notice of any such adjustment); nor will it by any act hereunder be deemed to make any representation or warranty as to the authorization or reservation of any shares of stock or other securities to be issued pursuant to this Agreement or any Right Certificate or as to whether any shares of stock or other securities will, when issued, be duly authorized, validly issued, fully paid and nonassessable.

(f) The Company will perform, execute, acknowledge and deliver or cause to be performed, executed, acknowledged and delivered all such further and other acts, instruments and assurances as may reasonably be required by the Rights Agent for the carrying out or performing by the Rights Agent of the provisions of this Agreement.

(g) The Rights Agent is hereby authorized and directed to accept instructions with respect to the performance of its duties hereunder from any one of the Chairman, the President, any Vice President, the Secretary or the Treasurer of the Company, and to apply to such officers for advice or instructions in connection with its duties, and it will not be liable for any action taken or suffered to be taken by it in good faith in accordance with instructions of any such officer.

(h) The Rights Agent and any shareholder, director, officer or employee of the Rights Agent may buy, sell or deal in any of the Rights or other securities of the Company or become pecuniarily interested in any transaction in which the Company may be interested, or contract with or lend money to the Company or otherwise act as fully and freely as though it were not Rights Agent under this Agreement. Nothing herein will preclude the Rights Agent from acting in any other capacity for the Company or for any other Person.

(i) The Rights Agent may execute and exercise any of the rights or powers hereby vested in it or perform any duty hereunder either itself or by or through its attorneys or agents, and the Rights Agent will not be answerable or accountable for any act, default, neglect or misconduct of any such attorneys or agents or for any loss to the Company resulting from any such act, default, neglect or misconduct, provided reasonable care was exercised in the selection and continued employment thereof. The Rights Agent will not be under any duty or responsibility to ensure compliance with any applicable federal or state securities laws in connection with the issuance, transfer or exchange of Right Certificates.

(j) If, with respect to any Right Certificate surrendered to the Rights Agent for exercise, transfer, split up, combination or exchange, either (i) the certificate attached to the form of assignment or form of election to purchase, as the case may be, has either not been completed or indicates an affirmative response to clause 1 or 2 thereof, or (ii) any other actual or suspected irregularity exists, the Rights Agent will not take any further action with respect to such requested exercise, transfer, split up, combination or exchange without first consulting with the Company, and will thereafter take further action with respect thereto only in accordance with the Company's written instructions.

21. CHANGE OF RIGHTS AGENT. The Rights Agent or any successor Rights Agent may resign and be discharged from its duties under this Agreement upon 30 calendar days' notice in writing mailed to the Company and to each transfer agent of the Preferred Shares or the Common Shares by registered or certified mail, and to the holders of the Right Certificates by first class mail. The Company may remove the Rights Agent or any successor Rights Agent upon 30 calendar days' notice in writing, mailed to the Rights Agent or successor Rights Agent, as the

case may be, and to each transfer agent of the Preferred Shares and the Common Shares by registered or certified mail, and to the holders of the Right Certificates by first class mail. If the Rights Agent resigns or is removed or otherwise becomes incapable of acting, the Company will appoint a successor to the Rights Agent. If the Company fails to make such appointment within a period of 30 calendar days after giving notice of such removal or after it has been notified in writing of such resignation or incapacity by the resigning or incapacitated Rights Agent or by the holder of a Right Certificate (who will, with such notice, submit his Right Certificate for inspection by the Company), then the registered holder of any Right Certificate may apply to any court of competent jurisdiction for the appointment of a new Rights Agent. Any successor Rights Agent, whether appointed by the Company or by such a court, will be a corporation or other legal entity organized and doing business under the laws of the United States or of the State of New York (or of any other state of the United States so long as such corporation is authorized to do business as a banking institution in the State of New York), in good standing, having a principal office in the State of New York, which is authorized under such laws to exercise corporate trust or stock transfer powers and is subject to supervision or examination by federal or state authority and which has at the time of its appointment as Rights Agent a combined capital and surplus of at least \$50 million. After appointment, the successor Rights Agent will be vested with the same powers, rights, duties and responsibilities as if it had been originally named as Rights Agent without further act or deed; but the predecessor Rights Agent will deliver and transfer to the successor Rights Agent any property at the time held by it hereunder, and execute and deliver any further assurance, conveyance, act or deed necessary for the purpose. Not later than the effective date of any such appointment, the Company will file notice thereof in writing with the predecessor Rights Agent and each transfer agent of the Preferred Shares or the Common Shares, and mail a notice thereof in writing to the registered holders of the Right Certificates. Failure to give any notice provided for in this Section 21, however, or any defect therein, will not affect the legality or validity of the resignation or removal of the Rights Agent or the appointment of the successor Rights Agent, as the case may be.

22. **ISSUANCE OF NEW RIGHT CERTIFICATES.** Notwithstanding any of the provisions of this Agreement or of the Rights to the contrary, the Company may, at its option, issue new Right Certificates evidencing Rights in such form as may be approved by its Directors to reflect any adjustment or change in the Purchase Price per share and the number or kind of securities issuable upon exercise of the Rights made in accordance with the provisions of this Agreement. In addition, in connection with the issuance or sale by the Company of Common Shares following the Distribution Date and prior to the Expiration Date, the Company (a) will, with respect to Common Shares so issued or sold pursuant to the exercise, exchange or conversion of securities (other than Rights) issued prior to the Distribution Date which are exercisable or exchangeable for, or convertible into Common Shares, and (b) may, in any other case, if deemed necessary, appropriate or desirable by the Directors of the Company, issue Right Certificates representing an equivalent number of Rights as would have been issued in respect of such Common Shares if they had been issued or sold prior to the Distribution Date, as appropriately adjusted as provided herein as if they had been so issued or sold; PROVIDED, HOWEVER, that (i) no such Right Certificate will be issued if, and to the extent that, in its good faith judgment the Directors of the Company determine that the issuance of such Right Certificate could have a material adverse tax consequence to the Company or to the Person to whom or which such Right Certificate otherwise would be issued and (ii) no such Right Certificate will be issued if, and to the extent that, appropriate adjustment otherwise has been made in lieu of the issuance thereof.

23. REDEMPTION. (a) Prior to the Expiration Date, the Directors of the Company may, at their option, redeem all but not less than all of the then-outstanding Rights at the Redemption Price at any time prior to the Close of Business on the later of (i) the Distribution Date and (ii) Share Acquisition Date. Any such redemption will be effective immediately upon the action of the Directors of the Company ordering the same, unless such action of the Directors of the Company expressly provides that such redemption will be effective at a subsequent time or upon the occurrence or nonoccurrence of one or more specified events (in which case such redemption will be effective in accordance with the provisions of such action of the Directors of the Company).

(b) Immediately upon the effectiveness of the redemption of the Rights as provided in Section 23(a), and without any further action and without any notice, the right to exercise the Rights will terminate and the only right thereafter of the holders of Rights will be to receive the Redemption Price, without interest thereon. Promptly after the effectiveness of the redemption of the Rights as provided in Section 23(a), the Company will publicly announce such redemption and, within 10 calendar days thereafter, will give notice of such redemption to the holders of the then-outstanding Rights by mailing such notice to all such holders at their last addresses as they appear upon the registry books of the Company; PROVIDED, HOWEVER, that the failure to give, or any defect in, any such notice will not affect the validity of the redemption of the Rights. Any notice that is mailed in the manner herein provided will be deemed given, whether or not the holder receives the notice. The notice of redemption mailed to the holders of Rights will state the method by which the payment of the Redemption Price will be made. The Company may, at its option, pay the Redemption Price in cash, Common Shares (based upon the current per share market price of the Common Shares (determined pursuant to Section 11(d)) at the time of redemption), or any other form of consideration deemed appropriate by the Directors of the Company (based upon the fair market value of such other consideration, determined by the Directors of the Company in good faith) or any combination thereof. The Company may, at its option, combine the payment of the Redemption Price with any other payment being made concurrently to holders of Common Shares and, to the extent that any such other payment is discretionary, may reduce the amount thereof on account of the concurrent payment of the Redemption Price. If legal or contractual restrictions prevent the Company from paying the Redemption Price (in the form of consideration deemed appropriate by the Directors) at the time of redemption, the Company will pay the Redemption Price, without interest, promptly after such time as the Company ceases to be so prevented from paying the Redemption Price.

24. EXCHANGE. (a) The Directors of the Company may, at their option, at any time after the later of the Share Acquisition Date and the Distribution Date, exchange all or part of the then-outstanding and exercisable Rights (which will not include Rights that have become void pursuant to the provisions of Section 11(a)(ii)) for Common Shares at an exchange ratio of one Common Share per Right, appropriately adjusted to reflect any stock split, stock dividend or similar transaction occurring after the Record Date (such exchange ratio being hereinafter referred to as the "EXCHANGE RATIO"). Any such exchange will be effective immediately upon the action of the Directors of the Company ordering the same, unless such action of the Directors of the Company expressly provides that such exchange will be effective at a subsequent time or upon the occurrence or nonoccurrence of one or more specified events (in which case such exchange will be effective in accordance with the provisions of such action of the Directors of the Company). Notwithstanding the foregoing, the Directors of the Company will not be empowered to effect such exchange at any time after any Person (other than the Company or any

Related Person), who or which, together with all Affiliates and Associates of such Person, becomes the Beneficial Owner of 50% or more of the then-outstanding Common Shares.

(b) Immediately upon the effectiveness of the exchange of any Rights as provided in Section 24(a), and without any further action and without any notice, the right to exercise such Rights will terminate and the only right with respect to such Rights thereafter of the holder of such Rights will be to receive that number of Common Shares equal to the number of such Rights held by such holder multiplied by the Exchange Ratio. Promptly after the effectiveness of the exchange of any Rights as provided in Section 24(a), the Company will publicly announce such exchange and, within 10 calendar days thereafter, will give notice of such exchange to all of the holders of such Rights at their last addresses as they appear upon the registry books of the Rights Agent; PROVIDED, HOWEVER, that the failure to give, or any defect in, such notice will not affect the validity of such exchange. Any notice that is mailed in the manner herein provided will be deemed given, whether or not the holder receives the notice. Each such notice of exchange will state the method by which the exchange of the Common Shares for Rights will be effected and, in the event of any partial exchange, the number of Rights which will be exchanged. Any partial exchange will be effected pro rata based on the number of Rights (other than Rights which have become void pursuant to the provisions of Section 11(a)(ii)) held by each holder of Rights.

(c) In any exchange pursuant to this Section 24, the Company, at its option, may substitute for any Common Share exchangeable for a Right (i) equivalent common shares (as such term is used in Section 11(a)(iii)), (ii) cash, (iii) debt securities of the Company, (iv) other assets, or (v) any combination of the foregoing, in any event having an aggregate value, as determined in good faith by the Directors of the Company (whose determination will be described in a statement filed with the Rights Agent), equal to the current market value of one Common Share (determined pursuant to Section 11(d)) on the Trading Day immediately preceding the date of the effectiveness of the exchange pursuant to this Section 24.

25. NOTICE OF CERTAIN EVENTS. (a) If, after the Distribution Date, the Company proposes (i) to pay any dividend payable in stock of any class to the holders of Preferred Shares or to make any other distribution to the holders of Preferred Shares (other than a regular periodic cash dividend), (ii) to offer to the holders of Preferred Shares rights, options or warrants to subscribe for or to purchase any additional Preferred Shares or shares of stock of any class or any other securities, rights or options, (iii) to effect any reclassification of its Preferred Shares (other than a reclassification involving only the subdivision of outstanding Preferred Shares), (iv) to effect any consolidation or merger into or with, or to effect any sale or other transfer (or to permit one or more of its Subsidiaries to effect any sale or other transfer), in one or more transactions, of assets or earning power (including, without limitation, securities creating any obligation on the part of the Company and/or any of its Subsidiaries) representing more than 50% of the assets and earning power of the Company and its Subsidiaries, taken as a whole, to any other Person or Persons other than the Company or one or more of its wholly owned Subsidiaries, (v) to effect the liquidation, dissolution or winding up of the Company, or (vi) to declare or pay any dividend on the Common Shares payable in Common Shares or to effect a subdivision, combination or reclassification of the Common Shares then, in each such case, the Company will give to each holder of a Right Certificate, to the extent feasible and in accordance with Section 26, a notice of such proposed action, which specifies the record date for the purposes of such stock dividend, distribution or offering of rights, options or warrants, or the date on which such reclassification,

consolidation, merger, sale, transfer, liquidation, dissolution or winding up is to take place and the date of participation therein by the holders of the Common Shares and/or Preferred Shares, if any such date is to be fixed, and such notice will be so given, in the case of any action covered by clause (i) or (ii) above, at least 10 calendar days prior to the record date for determining holders of the Preferred Shares for purposes of such action, and, in the case of any such other action, at least 10 calendar days prior to the date of the taking of such proposed action or the date of participation therein by the holders of the Common Shares and/or Preferred Shares, whichever is the earlier.

(b) In case any Triggering Event occurs, then, in any such case, the Company will as soon as practicable thereafter give to the Rights Agent and each holder of a Right Certificate, in accordance with Section 26, a notice of the occurrence of such event, which specifies the event and the consequences of the event to holders of Rights.

26. NOTICES. (a) Notices or demands authorized by this Agreement to be given or made by the Rights Agent or by the holder of any Right Certificate to or on the Company will be sufficiently given or made if sent by first class mail, postage prepaid, addressed (until another address is filed in writing with the Rights Agent) as follows:

Brush Engineered Materials Inc.
17876 St. Clair Avenue
Cleveland, Ohio 44110
Attention: Secretary

(b) Subject to the provisions of Section 21 hereof, any notice or demand authorized by this Agreement to be given or made by the Company or by the holder of any Right Certificate to or on the Rights Agent will be sufficiently given or made if sent by first-class mail, postage prepaid, addressed (until another address is filed in writing with the Company) as follows:

National City Bank, N.A.
Corporate Trust Administration
629 Euclid Avenue, Suite 635
Cleveland, Ohio 44114
Attention: Corporate Trust Administration

(c) Notices or demands authorized by this Agreement to be given or made by the Company or the Rights Agent to the holder of any Right Certificate (or, if prior the Distribution Date, to the holder of any certificate evidencing Common Shares) will be sufficiently given or made if sent by first class mail, postage prepaid, addressed to such holder at the address of such holder as shown on the registry books of the Company.

27. SUPPLEMENTS AND AMENDMENTS. Prior to the time at which the Rights cease to be redeemable pursuant to Section 23, and subject to the last sentence of this Section 27, the Company may in its sole and absolute discretion, and the Rights Agent will if the Company so directs, supplement or amend any provision of this Agreement in any respect without the approval of any holders of Rights or Common Shares. From and after the time at which the Rights cease to be redeemable pursuant to Section 23, and subject to the last sentence of this

Section 27, the Company may, and the Rights Agent will if the Company so directs, supplement or amend this Agreement without the approval of any holders of Rights or Common Shares in order (i) to cure any ambiguity, (ii) to correct or supplement any provision contained herein which may be defective or inconsistent with any other provisions herein, (iii) to shorten or lengthen any time period hereunder, or (iv) to supplement or amend the provisions hereunder in any manner which the Company may deem desirable; provided that no such supplement or amendment shall adversely affect the interests of the holders of Rights as such (other than an Acquiring Person or an Affiliate or Associate of an Acquiring Person), and no such supplement or amendment shall cause the Rights again to become redeemable or cause this Agreement again to become supplementable or amendable otherwise than in accordance with the provisions of this sentence. Without limiting the generality or effect of the foregoing, this Agreement may be supplemented or amended to provide for such voting powers for the Rights and such procedures for the exercise thereof, if any, as the Directors of the Company may determine to be appropriate. Upon the delivery of a certificate from an officer of the Company which states that the proposed supplement or amendment is in compliance with the terms of this Section 27, the Rights Agent will execute such supplement or amendment; PROVIDED, HOWEVER, that the failure or refusal of the Rights Agent to execute such supplement or amendment will not affect the validity of any supplement or amendment adopted by the Directors of the Company, any of which will be effective in accordance with the terms thereof. Notwithstanding anything in this Agreement to the contrary, no supplement or amendment may be made which decreases the stated Redemption Price to an amount less than \$.01 per Right.

28. **SUCCESSORS; CERTAIN COVENANTS.** All the covenants and provisions of this Agreement by or for the benefit of the Company or the Rights Agent will be binding on and inure to the benefit of their respective successors and assigns hereunder.

29. **BENEFITS OF THIS AGREEMENT.** Nothing in this Agreement will be construed to give to any Person other than the Company, the Rights Agent, and the registered holders of the Right Certificates (and, prior to the Distribution Date, the Common Shares) any legal or equitable right, remedy or claim under this Agreement. This Agreement will be for the sole and exclusive benefit of the Company, the Rights Agent, and the registered holders of the Right Certificates (or prior to the Distribution Date, the Common Shares).

30. **GOVERNING LAW.** This Agreement, each Right and each Right Certificate issued hereunder will be deemed to be a contract made under the internal substantive laws of the State of Ohio and for all purposes will be governed by and construed in accordance with the internal substantive laws of such State applicable to contracts to be made and performed entirely within such State.

31. **SEVERABILITY.** If any term, provision, covenant or restriction of this Agreement is held by a court of competent jurisdiction or other authority to be invalid, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions of this Agreement will remain in full force and effect and will in no way be affected, impaired or invalidated; PROVIDED, HOWEVER, that nothing contained in this Section 31 will affect the ability of the Company under the provisions of Section 27 to supplement or amend this Agreement to replace such invalid, void or unenforceable term, provision, covenant or restriction with a legal, valid and enforceable term, provision, covenant or restriction.

32. **DESCRIPTIVE HEADINGS, ETC.** Descriptive headings of the several Sections of this Agreement are inserted for convenience only and will not control or affect the meaning or construction of any of the provisions hereof. Unless otherwise expressly provided, references herein to Articles, Sections and Exhibits are to Articles, Sections and Exhibits of or to this Agreement.

33. **DETERMINATIONS AND ACTIONS BY THE DIRECTORS.** For all purposes of this Agreement, any calculation of the number of Common Shares outstanding at any particular time, including for purposes of determining the particular percentage of such outstanding Common Shares of which any Person is the Beneficial Owner, will be made in accordance with the last sentence of Rule 13d-3(d)(1)(i) of the General Rules and Regulations under the Exchange Act. The Directors of the Company will have the exclusive power and authority to administer this Agreement and to exercise all rights and powers specifically granted to the Directors of the Company or to the Company, or as may be necessary or advisable in the administration of this Agreement, including without limitation the right and power to (i) interpret the provisions of this Agreement and (ii) make all determinations deemed necessary or advisable for the administration of this Agreement (including any determination as to whether particular Rights shall have become void). All such actions, calculations, interpretations and determinations (including, for purposes of clause (y) below, any omission with respect to any of the foregoing) which are done or made by the Directors of the Company in good faith will (x) be final, conclusive and binding on the Company, the Rights Agent, the holders of the Rights and all other parties and (y) not subject the Directors of the Company to any liability to any Person, including without limitation the Rights Agent and the holders of the Rights.

34. **COUNTERPARTS.** This Agreement may be executed in any number of counterparts and each of such counterparts will for all purposes be deemed to be an original, and all such counterparts will together constitute but one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and their respective corporate seals to be hereunto affixed and attested, all as of the day and year first above written.

BRUSH ENGINEERED MATERIALS INC.

By: /s/ Michael C. Hasychak
Name: Michael C. Hasychak
Title: Secretary

NATIONAL CITY BANK, N.A.

By: /s/ Laura S. Kress
Name: Laura S. Kress
Title: Vice President

FORM OF
CERTIFICATE OF ADOPTION OF AMENDMENT
TO AMENDED ARTICLES OF INCORPORATION
of
BRUSH ENGINEERED MATERIALS INC.

(Pursuant to Section 1701.70(B)(1) of the Ohio Revised Code)

Brush Engineered Materials Inc., a corporation organized and existing under the laws of the State of Ohio (the “Company”), DOES HEREBY CERTIFY:

That, pursuant to authority vested in the Directors of the Company by its Amended and Restated Articles of Incorporation (the “Articles”), and pursuant to the provisions of Section 1701.70(B)(1) of the Ohio Revised Code, the Directors of the Company have adopted the following resolution providing for the issuance of a series of Preferred Stock:

RESOLVED, that pursuant to the authority expressly granted to and vested in the Board of Directors of the Company (the “Directors”) by the Amended and Restated Articles of Incorporation of the Company, Article III.B. of the Articles be, and it hereby is, amended by adding thereafter new Sections I-X as set forth below.

I. Designation and Amount

The shares of such series will be designated as Series A Junior Participating Preferred Stock (the “Series A Preferred”) and the number of shares constituting the Series A Preferred is 600,000. Such number of shares may be increased or decreased by resolution of the Directors; provided, however, that no decrease will reduce the number of shares of Series A Preferred to a number less than the number of shares then outstanding plus the number of shares reserved for issuance upon the exercise of outstanding options, rights or warrants or upon the conversion of any outstanding securities issued by the Company convertible into Series A Preferred.

II. Dividends and Distributions

(a) Subject to the rights of the holders of any shares of any series of Preferred Stock ranking prior to the Series A Preferred with respect to dividends, the holders of shares of Series A Preferred, in preference to the holders of Common Stock, no par value (the “Common Stock”), of the Company, and of any other junior stock, will be entitled to receive, when, as and if declared by the Directors out of funds legally available for the purpose, dividends payable in cash (except as otherwise provided below) on such dates as are from time to time established for the payment of dividends on the Common Stock (each such date being referred to herein as a “Dividend Payment Date”), commencing on the first Dividend Payment Date after the first issuance of a share or fraction of a share of Series A Preferred (the “First Dividend Payment Date”), in an amount per share (rounded to the nearest cent) equal to the greater of (i) \$1.00 or (ii) subject to the provision for adjustment hereinafter set forth, one hundred times the aggregate per share amount of all cash dividends, and one hundred times the aggregate per share amount (payable in

kind) of all non-cash dividends, other than a dividend payable in shares of Common Stock or a subdivision of the outstanding shares of Common Stock (by reclassification or otherwise), declared on the Common Stock since the immediately preceding Dividend Payment Date or, with respect to the First Dividend Payment Date, since the first issuance of any share or fraction of a share of Series A Preferred. In the event that the Company at any time (i) declares a dividend on the outstanding shares of Common Stock payable in shares of Common Stock, (ii) subdivides the outstanding shares of Common Stock, (iii) combines the outstanding shares of Common Stock into a smaller number of shares, or (iv) issues any shares of its capital stock in a reclassification of the outstanding shares of Common Stock (including any such reclassification in connection with a consolidation or merger in which the Company is the continuing or surviving corporation), then, in each such case and regardless of whether any shares of Series A Preferred are then issued or outstanding, the amount to which holders of shares of Series A Preferred would otherwise be entitled immediately prior to such event under clause (ii) of the preceding sentence will be adjusted by multiplying such amount by a fraction, the numerator of which is the number of shares of Common Stock outstanding immediately after such event and the denominator of which is the number of shares of Common Stock that were outstanding immediately prior to such event.

(b) The Company will declare a dividend on the Series A Preferred as provided in the immediately preceding paragraph immediately after it declares a dividend on the Common Stock (other than a dividend payable in shares of Common Stock). Each such dividend on the Series A Preferred will be payable immediately prior to the time at which the related dividend on the Common Stock is payable.

(c) Dividends will accrue on outstanding shares of Series A Preferred from the Dividend Payment Date next preceding the date of issue of such shares, unless (i) the date of issue of such shares is prior to the record date for the First Dividend Payment Date, in which case dividends on such shares will accrue from the date of the first issuance of a share of Series A Preferred or (ii) the date of issue is a Dividend Payment Date or is a date after the record date for the determination of holders of shares of Series A Preferred entitled to receive a dividend and before such Dividend Payment Date, in either of which events such dividends will accrue from such Dividend Payment Date. Accrued but unpaid dividends will cumulate from the applicable Dividend Payment Date but will not bear interest. Dividends paid on the shares of Series A Preferred in an amount less than the total amount of such dividends at the time accrued and payable on such shares will be allocated pro rata on a share-by-share basis among all such shares at the time outstanding. The Directors may fix a record date for the determination of holders of shares of Series A Preferred entitled to receive payment of a dividend or distribution declared thereon, which record date will be not more than 60 calendar days prior to the date fixed for the payment thereof.

III. Voting Rights

The holders of shares of Series A Preferred will have the following voting rights:

(d) Subject to the provision for adjustment hereinafter set forth, each share of Series A Preferred will entitle the holder thereof to one hundred votes on all matters submitted to a vote of the stockholders of the Company. In the event the Company at any time (i) declares a dividend on the outstanding shares of Common Stock payable in shares of

Common Stock, (ii) subdivides the outstanding shares of Common Stock, (iii) combines the outstanding shares of Common Stock into a smaller number of shares, or (iv) issues any shares of its capital stock in a reclassification of the outstanding shares of Common Stock (including any such reclassification in connection with a consolidation or merger in which the Company is the continuing or surviving corporation), then, in each such case and regardless of whether any shares of Series A Preferred are then issued or outstanding, the number of votes per share to which holders of shares of Series A Preferred would otherwise be entitled immediately prior to such event will be adjusted by multiplying such number by a fraction, the numerator of which is the number of shares of Common Stock outstanding immediately after such event and the denominator of which is the number of shares of Common Stock that were outstanding immediately prior to such event.

(e) Except as otherwise provided herein, in any other Preferred Stock Designation creating a series of Preferred Stock or any similar stock, or by law, the holders of shares of Series A Preferred and the holders of shares of Common Stock and any other capital stock of the Company having general voting rights will vote together as one class on all matters submitted to a vote of stockholders of the Company.

(f) Except as set forth in the Amended and Restated Articles of Incorporation or herein, or as otherwise provided by law, holders of shares of Series A Preferred will have no voting rights.

IV. Certain Restrictions

(g) Whenever dividends or other dividends or distributions payable on the Series A Preferred are in arrears, thereafter and until all accrued and unpaid dividends and distributions, whether or not declared, on shares of Series A Preferred outstanding have been paid in full, the Company will not:

(i) Declare or pay dividends, or make any other distributions, on any shares of stock ranking junior (either as to dividends or upon liquidation, dissolution or winding up) to the shares of Series A Preferred;

(ii) Declare or pay dividends, or make any other distributions, on any shares of stock ranking on a parity (either as to dividends or upon liquidation, dissolution or winding up) with the shares of Series A Preferred, except dividends paid ratably on the shares of Series A Preferred and all such parity stock on which dividends are payable or in arrears in proportion to the total amounts to which the holders of all such shares are then entitled;

(iii) Redeem, purchase or otherwise acquire for consideration shares of any stock ranking junior (either as to dividends or upon liquidation, dissolution or winding up) to the shares of Series A Preferred; provided, however, that the Company may at any time redeem, purchase or otherwise acquire shares of any such junior stock in exchange for shares of any stock of the Company ranking junior (either as to dividends or upon dissolution, liquidation or winding up) to the shares of Series A Preferred; or

(iv) Redeem, purchase or otherwise acquire for consideration any shares of Series A Preferred, or any shares of stock ranking on a parity with the shares of Series A Preferred, except in accordance with a purchase offer made in writing or by publication (as determined by the Directors) to all holders of such shares upon such terms as the Directors, after consideration of the respective annual dividend rates and other relative rights and preferences of the respective series and classes, may determine in good faith will result in fair and equitable treatment among the respective series or classes.

(h) The Company will not permit any majority-owned subsidiary of the Company to purchase or otherwise acquire for consideration any shares of stock of the Company unless the Company could, under paragraph (a) of this Article IV, purchase or otherwise acquire such shares at such time and in such manner.

V. Reacquired Shares

Any shares of Series A Preferred purchased or otherwise acquired by the Company in any manner whatsoever will be retired and canceled promptly after the acquisition thereof. All such shares will upon their cancellation become authorized but unissued shares of Preferred Stock and may be reissued as part of a new series of Preferred Stock subject to the conditions and restrictions on issuance set forth herein, in the Amended and Restated Articles of Incorporation of the Company, or in any other Preferred Stock Designation creating a series of Preferred Stock or any similar stock or as otherwise required by law.

VI. Liquidation, Dissolution or Winding Up

Upon any liquidation, dissolution or winding up of the Company, no distribution will be made (a) to the holders of shares of stock ranking junior (either as to dividends or upon liquidation, dissolution or winding up) to the shares of Series A Preferred unless, prior thereto, the holders of shares of Series A Preferred have received \$100 per share, plus an amount equal to accrued and unpaid dividends and distributions thereon, whether or not declared, to the date of such payment; provided, however, that the holders of shares of Series A Preferred will be entitled to receive an aggregate amount per share, subject to the provision for adjustment hereinafter set forth, equal to one hundred times the aggregate amount to be distributed per share to holders of shares of Common Stock or (b) to the holders of shares of stock ranking on a parity (either as to dividends or upon liquidation, dissolution or winding up) with the shares of Series A Preferred, except distributions made ratably on the shares of Series A Preferred and all such parity stock in proportion to the total amounts to which the holders of all such shares are entitled upon such liquidation, dissolution or winding up. In the event the Company at any time (i) declares a dividend on the outstanding shares of Common Stock payable in shares of Common Stock, (ii) subdivides the outstanding shares of Common Stock, (iii) combines the outstanding shares of Common Stock into a smaller number of shares, or (iv) issues any shares of its capital stock in a reclassification of the outstanding shares of Common Stock (including any such reclassification in connection with a consolidation or merger in which the Company is the continuing or surviving corporation), then, in each such case and regardless of whether any shares of Series A Preferred are then issued or outstanding, the aggregate amount to which each holder of shares of Series A Preferred would otherwise be entitled immediately prior to such event under the proviso in clause (a) of the preceding sentence will be adjusted by multiplying such amount by a fraction, the numerator of which is the number of shares of Common Stock outstanding immediately after

such event and the denominator of which is the number of shares of Common Stock that were outstanding immediately prior to such event.

VII. Consolidation, Merger, Etc.

In the event that the Company enters into any consolidation, merger, combination or other transaction in which the shares of Common Stock are exchanged for or changed into other stock or securities, cash and/or any other property, then, in each such case, each share of Series A Preferred will at the same time be similarly exchanged for or changed into an amount per share, subject to the provision for adjustment hereinafter set forth, equal to one hundred times the aggregate amount of stock, securities, cash and/or any other property (payable in kind), as the case may be, into which or for which each share of Common Stock is changed or exchanged. In the event the Company at any time (a) declares a dividend on the outstanding shares of Common Stock payable in shares of Common Stock, (b) subdivides the outstanding shares of Common Stock, (c) combines the outstanding shares of Common Stock in a smaller number of shares, or (d) issues any shares of its capital stock in a reclassification of the outstanding shares of Common Stock (including any such reclassification in connection with a consolidation or merger in which the Company is the continuing or surviving corporation), then, in each such case and regardless of whether any shares of Series A Preferred are then issued or outstanding, the amount set forth in the preceding sentence with respect to the exchange or change of shares of Series A Preferred will be adjusted by multiplying such amount by a fraction, the numerator of which is the number of shares of Common Stock outstanding immediately after such event and the denominator of which is the number of shares of Common Stock that were outstanding immediately prior to such event.

VIII. Redemption

The shares of Series A Preferred are not redeemable.

IX. Rank

The Series A Preferred rank, with respect to the payment of dividends and the distribution of assets, junior to all other series of the Company's Preferred Stock.

X. Amendment

Notwithstanding anything contained in the Amended and Restated Articles of Incorporation of the Company to the contrary and in addition to any other vote required by applicable law, the Amended and Restated Articles of Incorporation of the Company may not be amended in any manner that would materially alter or change the powers, preferences or special rights of the Series A Preferred so as to affect them adversely without the affirmative vote of the holders of at least 80% of the outstanding shares of Series A Preferred, voting together as a single series.

IN WITNESS WHEREOF, this Articles of Designation is executed on behalf of the Company by its Secretary and attested by its
_____this ____day of _____2000.

Name:
Title:

Attest:

Name:
Title:

FORM OF RIGHT CERTIFICATE

Certificate No. R-

_____Rights

NOT EXERCISABLE AFTER [INSERT FINAL EXPIRATION DATE] (SUBJECT TO POSSIBLE EXTENSION AT THE OPTION OF THE COMPANY) OR EARLIER IF REDEEMED, EXCHANGED OR AMENDED. THE RIGHTS ARE SUBJECT TO REDEMPTION, EXCHANGE AND AMENDMENT AT THE OPTION OF THE COMPANY, ON THE TERMS SET FORTH IN THE RIGHTS AGREEMENT. UNDER CERTAIN CIRCUMSTANCES SPECIFIED IN THE RIGHTS AGREEMENT, RIGHTS THAT ARE OR WERE BENEFICIALLY OWNED BY AN ACQUIRING PERSON OR AN AFFILIATE OR AN ASSOCIATE OF AN ACQUIRING PERSON (AS SUCH TERMS ARE DEFINED IN THE RIGHTS AGREEMENT) OR A TRANSFEREE THEREOF MAY BECOME NULL AND VOID.

Right Certificate

BRUSH ENGINEERED MATERIALS INC.

This certifies that Brush Engineered Materials Inc., or registered assigns, is the registered owner of the number of Rights set forth above, each of which entitles the owner thereof, subject to the terms, provisions, and conditions of the Rights Agreement, dated as of May 10, 2000 (the "RIGHTS AGREEMENT"), between Brush Engineered Materials Inc., an Ohio corporation (the "COMPANY"), and National City Bank, N.A. (the "RIGHTS AGENT"), to purchase from the Company at any time after the Distribution Date (as such term is defined in the Rights Agreement) and prior to 5:00 P.M. (Eastern time) on the Expiration Date (as such term is defined in the Rights Agreement) at the principal office or offices of the Rights Agent designated for such purpose, one one-hundredth of a fully paid nonassessable share of Series A Junior Participating Preferred Stock, without par value (the "PREFERRED SHARES"), of the Company, at a purchase price of \$110.00 per one one-hundredth of a Preferred Share (the "PURCHASE PRICE"), upon presentation and surrender of this Right Certificate with the Form of Election to Purchase and related Certificate duly executed. If this Right Certificate is exercised in part, the holder will be entitled to receive upon surrender hereof another Right Certificate or Right Certificates for the number of whole Rights not exercised. The number of Rights evidenced by this Right Certificate (and the number of one one-hundredths of a Preferred Share which may be purchased upon exercise thereof) set forth above, and the Purchase Price set forth above, are the number and Purchase Price as of the date of the Rights Agreement, based on the Preferred Shares as constituted at such date.

As provided in the Rights Agreement, the Purchase Price and/or the number and/or kind of securities issuable upon the exercise of the Rights evidenced by this Right Certificate are subject to adjustment upon the occurrence of certain events.

This Right Certificate is subject to all of the terms, provisions and conditions of the Rights Agreement, which terms, provisions and conditions are hereby incorporated herein by reference and made a part hereof and to which Rights Agreement reference is hereby made for a full description of the rights, limitations of rights, obligations, duties and immunities of the Rights Agent, the Company and the holders of the Right Certificates, which limitations of rights include the temporary suspension of the exercisability of the Rights under the circumstances specified in the Rights Agreement. Copies of the Rights Agreement are on file at the above- mentioned office of the Rights Agent and can be obtained from the Company without charge upon written request therefor. Terms used herein with initial capital letters and not defined herein are used herein with the meanings ascribed thereto in the Rights Agreement.

Pursuant to the Rights Agreement, from and after the occurrence of a Flip-in Event, any Rights that are Beneficially Owned by (i) any Acquiring Person (or any Affiliate or Associate of any Acquiring Person), (ii) a transferee of any Acquiring Person (or any such Affiliate or Associate) who becomes a transferee after the occurrence of a Flip-in Event, or (iii) a transferee of any Acquiring Person (or any such Affiliate or Associate) who became a transferee prior to or concurrently with the Flip-in Event pursuant to either (a) a transfer from an Acquiring Person to holders of its equity securities or to any Person with whom it has any continuing agreement, arrangement or understanding regarding the transferred Rights or (b) a transfer which the Directors of the Company have determined is part of a plan, arrangement or understanding which has the purpose or effect of avoiding certain provisions of the Rights Agreement, and subsequent transferees of any of such Persons, will be void without any further action and any holder of such Rights will thereafter have no rights whatsoever with respect to such Rights under any provision of the Rights Agreement. From and after the occurrence of a Flip-in Event, no Right Certificate will be issued that represents Rights that are or have become void pursuant to the provisions of the Rights Agreement, and any Right Certificate delivered to the Rights Agent that represents Rights that are or have become void pursuant to the provisions of the Rights Agreement will be canceled.

This Right Certificate, with or without other Right Certificates, may be transferred, split up, combined or exchanged for another Right Certificate or Right Certificates entitling the holder to purchase a like number of one one-hundredths of a Preferred Share (or other securities, as the case may be) as the Right Certificate or Right Certificates surrendered entitled such holder (or former holder in the case of a transfer) to purchase, upon presentation and surrender hereof at the principal office of the Rights Agent designated for such purpose, with the Form of Assignment (if appropriate) and the related Certificate duly executed.

Subject to the provisions of the Rights Agreement, the Rights evidenced by this Certificate may be redeemed by the Company at its option at a redemption price of \$.01 per Right or may be exchanged in whole or in part. The Rights Agreement may be supplemented and amended by the Company, as provided therein.

The Company is not required to issue fractions of Preferred Shares (other than fractions which are integral multiples of one one-hundredth of a Preferred Share, which may, at the option

of the Company, be evidenced by depositary receipts) or other securities issuable upon the exercise of any Right or Rights evidenced hereby. In lieu of issuing such fractional Preferred Shares or other securities, the Company may make a cash payment, as provided in the Rights Agreement.

No holder of this Right Certificate, as such, will be entitled to vote or receive dividends or be deemed for any purpose the holder of the Preferred Shares or of any other securities of the Company which may at any time be issuable upon the exercise of the Right or Rights represented hereby, nor will anything contained herein or in the Rights Agreement be construed to confer upon the holder hereof, as such, any of the rights of a shareholder of the Company or any right to vote for the election of directors or upon any matter submitted to shareholders at any meeting thereof, or to give or withhold consent to any corporate action, or to receive notice of meetings or other actions affecting shareholders (except as provided in the Rights Agreement), or to receive dividends or subscription rights, or otherwise, until the Right or Rights evidenced by this Right Certificate have been exercised in accordance with the provisions of the Rights Agreement.

This Right Certificate will not be valid or obligatory for any purpose until it has been countersigned by the Rights Agent.

WITNESS the facsimile signature of the proper officers of the Company and its corporate seal. Dated as of _____, ____.

[Seal]

ATTEST:

BRUSH ENGINEERED MATERIALS INC.

_____ By: _____

Name:

Title:

Countersigned:

National City Bank, N.A.

By: _____

Authorized Signature

Form of Reverse Side of Right Certificate

FORM OF ASSIGNMENT

(To be executed by the registered holder if such
holder desires to transfer the Right Certificate)

FOR VALUE RECEIVED, _____ hereby sells, assigns and transfers unto

(Please print name and address of transferee)

this Right Certificate, together with all right, title and interest therein, and does hereby irrevocably constitute and appoint _____
Attorney, to transfer the within Right Certificate on the books of the within-named Company, with full power of substitution.

Dated: _____, ____

Signature

Signature Guaranteed:

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CERTIFICATE

The undersigned hereby certifies by checking the appropriate boxes that:

(1) the Rights evidenced by this Right Certificate ☐ are ☐ are not being sold, assigned, transferred, split up, combined or exchanged by or on behalf of a Person who is or was an Acquiring Person or an Affiliate or Associate of any such Person (as such terms are defined in the Rights Agreement);

(2) after due inquiry and to the best knowledge of the undersigned, it ☐ did ☐ did not acquire the Rights evidenced by this Right Certificate from any Person who is, was or became an Acquiring Person or an Affiliate or Associate of an Acquiring Person.

Dated: _____, ____

Signature

FORM OF ELECTION TO PURCHASE

(To be executed if holder desires to
exercise the Right Certificate)

To Brush Engineered Materials Inc.

The undersigned hereby irrevocably elects to exercise _____ Rights represented by this Right Certificate to purchase the one one-hundredths of a Preferred Share or other securities issuable upon the exercise of such Rights and requests that certificates for such securities be issued in the name of and delivered to:

Please insert social security or other identifying number:

(Please print name and address)

If such number of Rights is not all the Rights evidenced by this Right Certificate, a new Right Certificate for the balance remaining of such Rights will be registered in the name of and delivered to:

Please insert social security or other identifying number:

(Please print name and address)

Dated: _____, ____

Signature

Signature Guaranteed:

CERTIFICATE

The undersigned hereby certifies by checking the appropriate boxes that:

(1) the Rights evidenced by this Right Certificate [] are [] are not being exercised by or on behalf of a Person who is or was an Acquiring Person or an Affiliate or Associate of any such Person (as such terms are defined pursuant to the Rights Agreement);

(2) after due inquiry and to the best knowledge of the undersigned, it [] did [] did not acquire the Rights evidenced by this Right Certificate from any Person who is, was, or became an Acquiring Person or an Affiliate or Associate of an Acquiring Person.

Dated: _____, ____

Signature

Notice

SIGNATURES ON THE FOREGOING FORM OF ASSIGNMENT AND FORM OF ELECTION TO PURCHASE AND IN THE RELATED CERTIFICATES MUST CORRESPOND TO THE NAME AS WRITTEN UPON THE FACE OF THIS RIGHT CERTIFICATE IN EVERY PARTICULAR, WITHOUT ALTERATION OR ENLARGEMENT OR ANY CHANGE WHATSOEVER.

SIGNATURES MUST BE GUARANTEED BY AN ELIGIBLE GUARANTOR INSTITUTION (BANKS, STOCKBROKERS, SAVINGS AND LOAN ASSOCIATIONS AND CREDIT UNIONS WITH MEMBERSHIP IN AN APPROVED MEDALLION SIGNATURE PROGRAM) PURSUANT TO RULE 17AD-15 UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS AMENDED.

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SUMMARY OF RIGHTS TO PURCHASE PREFERRED STOCK

The Directors (the “DIRECTORS”) of Brush Engineered Materials Inc. (the “COMPANY”) have declared a dividend distribution of one right (a “RIGHT”) for each outstanding share of common stock, no par value (the “COMMON SHARES”), of the Company. The distribution is payable on May 16, 2000 (the “RECORD DATE”) to the shareholders of record as of the close of business on the Record Date. Each Right entitles the registered holder thereof to purchase from the Company one one-hundredth of a share of Series A Junior Participating Preferred Stock, without par value (the “PREFERRED SHARES”), of the Company at a price (the “PURCHASE PRICE”) of \$110.00 per one one-hundredth of a Preferred Share, subject to adjustment. The description and terms of the Rights are set forth in a Rights Agreement, dated as of May 10, 2000 (the “RIGHTS AGREEMENT”), between the Company and National City Bank, N.A., as Rights Agent (the “RIGHTS AGENT”).

Under the Rights Agreement, the Rights will be evidenced by the certificates evidencing Common Shares until the earlier (the “DISTRIBUTION DATE”) of: (i) the close of business on the tenth calendar day following the first date (the “SHARE ACQUISITION DATE”) of public announcement that a person or group (other than the Company, a subsidiary or employee benefit or stock ownership plan of the Company or any of its affiliates or associates), together with its affiliates and associates, has acquired beneficial ownership of 20% or more of the outstanding Common Shares (any such person or group being hereinafter called an “ACQUIRING PERSON”) or (ii) the close of business on the tenth business day (or such later date as may be specified by the Directors) following the commencement of a tender offer or exchange offer by a person (other than the Company, a subsidiary or employee benefit or stock ownership plan of the Company or any of its affiliates or associates), the consummation of which would result in beneficial ownership by such person of 20% or more of the outstanding Common Shares.

The Rights Agreement provides that, until the Distribution Date, the Rights may be transferred with and only with the Common Shares. Until the Distribution Date (or earlier redemption, exchange or expiration of the Rights), any certificate evidencing Common Shares of the Company issued upon transfer or new issuance of the Common Shares will contain a notation incorporating the Rights Agreement by reference. Until the Distribution Date (or earlier redemption, exchange or expiration of the Rights), the surrender for transfer of any certificates evidencing Common Shares will also constitute the transfer of the Rights associated with such certificates. As soon as practicable following the Distribution Date, separate certificates evidencing the Rights (“RIGHT CERTIFICATES”) will be mailed to holders of record of Common Shares as of the close of business on the Distribution Date and such separate Right Certificates alone will evidence the Rights. No Right is exercisable at any time prior to the Distribution Date. The Rights will expire on the tenth anniversary of the Record Date (the “FINAL EXPIRATION DATE”) unless earlier redeemed, exchanged or amended by the Company as described below. Until a Right is exercised, the holder thereof, as such, will have no rights as a shareholder of the Company, including the right to vote or to receive dividends.

The Purchase Price payable, and the number of the Preferred Shares or other securities issuable, upon exercise of the Rights will be subject to adjustment from time to time to prevent dilution (i) in the event of a stock dividend on, or a subdivision, combination or reclassification

of, the Preferred Shares, (ii) upon the grant to holders of Preferred Shares of certain rights or warrants to subscribe for or purchase the Preferred Shares at a price, or securities convertible into the Preferred Shares with a conversion price, less than the then-current market price of the Preferred Shares, or (iii) upon the distribution to holders of the Preferred Shares of evidences of indebtedness, cash (excluding regular periodic cash dividends), assets, stock (excluding dividends payable in the Preferred Shares) or subscription rights or warrants (other than those referred to above). The number of outstanding Rights and the number of one one-hundredths of the Preferred Shares issuable upon exercise of each Right will be subject to adjustment in the event of a stock dividend on the Common Shares payable in Common Shares or a subdivision, combination or reclassification of Common Shares occurring, in any such case, prior to the Distribution Date.

Rights will be exercisable to purchase Preferred Shares only after the Distribution Date occurs and prior to the occurrence of a Flip-in Event as described below. A Distribution Date resulting from the commencement of a tender offer or exchange offer described in clause (ii) of the second paragraph of this summary could precede the occurrence of a Flip-in Event and thus result in the Rights being exercisable to purchase Preferred Shares. A Distribution Date resulting from any occurrence described in clause (i) of the second paragraph of this summary would necessarily follow the occurrence of a Flip-in Event and thus result in the Rights being exercisable to purchase Common Shares or other securities as described below.

Under the Rights Agreement, in the event (a "FLIP-IN EVENT") that (i) any person or group, together with its affiliates and associates, becomes an Acquiring Person (ii) any Acquiring Person or any affiliate or associate thereof merges into or combines with the Company and the Company is the surviving corporation, (iii) any Acquiring Person or any affiliate or associate thereof effects certain other transactions with the Company, or (iv) during such time as there is an Acquiring Person the Company effects certain transactions, in each case as described in the Rights Agreement, then, in each such case, proper provision will be made so that from and after the latest of the Share Acquisition Date, the Distribution Date and the date of the occurrence of such Flip-in Event each holder of a Right, other than Rights that are or were owned beneficially by an Acquiring Person (which, from and after the date of a Flip-in Event, will be void), will have the right to receive, upon exercise thereof at the then-current exercise price of the Right, that number of Common Shares (or, under certain circumstances, an economically equivalent security or securities of the Company) that at the time of such Flip-in Event have a market value of two times the exercise price of the Right.

In the event (a "FLIP-OVER EVENT") that, at any time after a person has become an Acquiring Person, (i) the Company merges with or into any person and the Company is not the surviving corporation, (ii) any person merges with or into the Company and the Company is the surviving corporation, but all or part of the Common Shares are changed or exchanged for stock or other securities of any other person or cash or any other property, or (iii) 50% or more of the Company's assets or earning power, including securities creating obligations of the Company, are sold, in each case as described in the Rights Agreement, then, and in each such case, proper provision will be made so that from and after the latest of the Share Acquisition Date, the Distribution Date and the date of the occurrence of such Flip-over Event, each holder of a Right, other than Rights which have become void, will thereafter have the right to receive, upon the exercise thereof at the then-current exercise price of the Right, that number of shares of common stock (or, under certain circumstances, an economically equivalent security or securities) of such

other person that at the time of such Flip-over Event have a market value of two times the exercise price of the Right.

From and after the later of the Share Acquisition Date and the Distribution Date, Rights (other than any Rights that have become void) will be exercisable as described above, upon payment of the aggregate exercise price in cash. In addition, at any time after the later of the Share Acquisition Date and the Distribution Date and prior to the acquisition by any person or group of affiliated or associated persons of 50% or more of the outstanding Common Shares, the Company may exchange the Rights (other than any rights that have become void), in whole or in part, at an exchange ratio of one Common Share per Right (subject to adjustment).

With certain exceptions, no adjustment in the Purchase Price will be required until cumulative adjustments require an adjustment in the Purchase Price of at least 1%. The Company will not be required to issue fractional Preferred Shares (other than fractions that are integral multiples of one one-hundredth of a Preferred Share, which may, at the option of the Company, be evidenced by depositary receipts) or fractional Common Shares or other securities issuable upon the exercise of Rights. In lieu of issuing such securities, the Company may make a cash payment, as provided in the Rights Agreement.

The Company may, at its option, redeem the Rights in whole, but not in part, at a price of \$.01 per Right, subject to adjustment (the "REDEMPTION PRICE"), at any time prior to the close of business on the later of the Distribution Date and the Share Acquisition Date. Immediately upon any redemption of the Rights, the right to exercise the Rights will terminate and the only right of the holders of Rights will be to receive the Redemption Price.

The Rights Agreement may be amended by the Company without the approval of any holders of Rights Certificates, including amendments that increase or decrease the Purchase Price, that add other events requiring adjustment to the Purchase Price payable and the number of the Preferred Shares or other securities issuable upon the exercise of the Rights or that modify procedures relating to the redemption of the Rights, except that no amendment may be made that decreases the stated Redemption Price to an amount less than \$.01 per Right.

The Directors will have the exclusive power and authority to administer the Rights Agreement and to exercise all rights and powers specifically granted to the Directors or to the Company therein, or as may be necessary or advisable in the administration of the Rights Agreement, including without limitation the right and power to interpret the provisions of the Rights Agreement and to make all determinations deemed necessary or advisable for the administration of the Rights Agreement (including any determination to redeem or not redeem the Rights or to amend or not amend the Rights Agreement). All such actions, calculations, interpretations and determinations (including any omission with respect to any of the foregoing) which are done or made by the Directors in good faith will be final, conclusive and binding on the Company, the Rights Agent, the holders of the Rights and all other parties and will not subject the Directors to any liability to any person, including without limitation the Rights Agent and the holders of the Rights.

A copy of the Rights Agreement has been filed with the Securities and Exchange Commission as an exhibit to a Registration Statement on Form 8-A. A copy of the Rights Agreement is available free of charge from the Company.

This summary description of the Rights is as of the Record Date, does not purport to be complete and is qualified in its entirety by reference to the Rights Agreement, which is incorporated herein by this reference.

OPINION OF THOMPSON HINE LLP

August 3, 2005

Brush Engineered Materials Inc.
17876 St. Clair Avenue
Cleveland, Ohio 44110

Re: Brush Engineered Materials Inc. Registration Statement on Form S-8
— Brush Engineered Materials Inc. Savings and Investment Plan

Ladies and Gentlemen:

Brush Engineered Materials Inc. (“Brush”) is filing with the Securities and Exchange Commission a Registration Statement on Form S-8 (the “Registration Statement”) for the registration, under the Securities Act of 1933, as amended, of 3,000,000 common shares, with no par value, of Brush (“Common Shares”) to be issued from time to time pursuant to the terms of the Brush Engineered Materials Inc. Savings and Investment Plan (the “Plan”).

Item 601 of Regulation S-K and the instructions to Form S-8 require that an opinion of counsel concerning the legality of the securities to be registered be filed as an exhibit to a Form S-8 registration statement if the securities are original issue shares. This opinion is provided in satisfaction of that requirement as it relates to the Registration Statement.

In rendering this opinion, we have examined (a) the Amended and Restated Articles of Incorporation and Amended and Restated Code of Regulations of Brush, (b) the Plan and (c) such records and documents as we have deemed advisable in order to render this opinion. As a result of the foregoing, we are of the opinion that:

(1) Brush is a corporation validly organized and existing and in good standing under the laws of the State of Ohio.

(2) When issued pursuant to the terms of the Plan, the Common Shares which are the subject of the Registration Statement will be legally issued, fully paid and non-assessable.

We hereby consent to the use and filing of this opinion in connection with the Registration Statement.

Very truly yours,

/s/ Thompson Hine LLP
Thompson Hine LLP

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the Registration Statement (Form S-8 No. 333-XXXXX) of the Brush Engineered Materials Inc. Savings and Investment Plan of our reports (a) dated February 28, 2005 with respect to the consolidated financial statements of Brush Engineered Materials Inc., Brush Engineered Materials Inc. management's assessment of the effectiveness of internal control over financial reporting, and the effectiveness of internal control over financial reporting of Brush Engineered Materials Inc. incorporated by reference in its Annual Report (Form 10-K) for the year ended December 31, 2004, and the related financial statement schedule included therein as to which our report date is March 14, 2005, and (b) dated June 29, 2005, with respect to the financial statements and schedule of the Brush Engineered Materials Inc. Savings and Investment Plan included in the Plan's Annual Report (Form 11-K) for the year ended December 31, 2004, filed with the Securities and Exchange Commission.

Cleveland, Ohio

August 3, 2005

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each of the undersigned officers and/or directors of Brush Engineered Materials Inc., an Ohio corporation ("the Company"), hereby constitutes and appoints Gordon D. Harnett, John D. Grampa and Michael C. Hasychak, and each of them, as true and lawful attorney or attorneys-in-fact for the undersigned, with full power of substitution and revocation, for him and in his name, place and stead, to sign on his behalf as an officer or director of the Company a Registration Statement or Registration Statements on Form S-8 pursuant to the Securities Act of 1933 concerning certain shares of Common Stock of the Company to be offered in connection with the Brush Engineered Materials Inc. Savings and Investment Plan and to sign any and all amendments or post-effective amendments to such Registration Statement(s), and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission or any state regulatory authority, granting unto said attorneys or attorneys-in-fact, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as they might or could do in person, hereby ratifying and confirming all that said attorney or attorneys-in-fact or any of them or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

This Power of Attorney may be executed in multiple counterparts, each of which shall be deemed an original with respect to the person executing it.

IN WITNESS WHEREOF, the undersigned have hereunto set their hands as of the 26TH day of July, 2005.

/s/ Gordon D. Harnett
 Gordon D. Harnett
 Chairman of the Board, Chief Executive
 Officer and Director
 (principal executive officer)

/s/ William P. Madar
 William P. Madar Director

/s/ John D. Grampa
 John D. Grampa
 Vice President and Chief Financial Officer
 (principal financial and accounting officer)

/s/ William G. Pryor
 William G. Pryor
 Director

/s/ Albert C. Bersticker
 Albert C. Bersticker
 Director

/s/ N. Mohan Reddy Ph.D.
 N. Mohan Reddy Ph.D.
 Director

/s/ Joseph P. Keithley
 Joseph P. Keithley
 Director

/s/ William R. Robertson
 William R. Robertson
 Director

/s/ William B. Lawrence
 William B. Lawrence
 Director

/s/ John Sherwin, Jr.
 John Sherwin, Jr.
 Director