

1/23/04

01-29-2004



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Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Brush Engineered Materials Inc.

2. Name and address of receiving party(ies)

Name: Bank One, NA

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance:

☐

Assignment

☐

Merger

☒

Security Agreement

☐

Change of Name

☐

Other _____

Street Address: 100 E. Broadstreet

City: Columbus State: OH Zip: 43215

Execution Date: 12/04/03

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09897851

B. Patent No.(s) 5,686,676

5,826,159, 5,760,473, 6,056,186

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robert H. Earp, III

Internal Address: MCDONALD HOPKINS, CO., LPA

Street Address: 2100 BANK ONE CENTER

600 SUPERIOR AVE., E.

City: CLEVELAND State: OH Zip: 44114

6. Total number of applications and patents involved: 48

7. Total fee (37 CFR 3.41).....\$ 1,920.00

☒

Enclosed (Please charge any deficiencies to Deposit Account)

☐

Authorized to be charged to deposit account

8. Deposit account number:

13-0265

DO NOT USE THIS SPACE

9. Signature.

Robert H. Earp, III (Reg #41,604)

Name of Person Signing

Robert H. Earp, III
Signature

1/20/04
Date

Total number of pages including cover sheet, attachments, and documents: 1

01/28/2004 ECOOPER 00000069 09897851

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1920.00 DP

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

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2004 JAN 23 10 23
OPR/FINANCE

PATENT
REEL: 014885 FRAME: 0765

CONTINUATION OF CONVEYING PARTIES

BEM Services, Inc.
Brush International, Inc.
Brush Wellman, Inc.
Zentrix Technologies, Inc.
Brush Resources, Inc.
Brush Ceramic Products, Inc.
Circuits Processing Technology, Inc.
Technical Materials, Inc.
Williams Advanced Materials, Inc.
Williams Acquisition, LLC

{472395:}

CONTINUED PATENT NUMBERS

6153449
6114048
5413644
5679182
5475549
6042658
6057989
5370753
5304426
5268334
5124119
5716467
5667600
5642773
5551997
5993731
5901336
6371224
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5651844
6190468

5686190
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PLEDGE AND SECURITY AGREEMENT

THIS PLEDGE AND SECURITY AGREEMENT (as it may be amended, supplemented, restated or modified from time to time, the "Security Agreement") is entered into as of December 4, 2003 by and among each of the parties identified on the signature page hereto (collectively, the "Grantors," and, individually, each a "Grantor"), and Bank One, NA, a national banking association having its principal office in Columbus, Ohio, in its capacity as agent (the "Agent") for the benefit of the Agent and the Lenders party to the Credit Agreement referred to below.

PRELIMINARY STATEMENT

The Grantors, the Agent, the Loan Parties and the Lenders are entering into a Credit Agreement dated as of December 4, 2003 (as it may be amended, supplemented, restated or modified from time to time, the "Credit Agreement"). The Grantors are entering into this Security Agreement in order to induce the Lenders to enter into and extend credit to the Loan Parties under the Credit Agreement.

ACCORDINGLY, the Grantors and the Agent, on behalf of the Agent and the Lenders, hereby agree as follows:

ARTICLE I DEFINITIONS

1.1. Terms Defined in Credit Agreement. All capitalized terms used herein and not otherwise defined shall have the meanings assigned to such terms in the Credit Agreement.

1.2. Terms Defined in the Uniform Commercial Code. Terms defined in the UCC (as defined in Section 1.3) which are not otherwise defined in this Security Agreement are used herein as defined in the UCC.

1.3. Definitions of Certain Terms Used Herein. As used in this Security Agreement, in addition to the terms defined in the Preamble and the Preliminary Statement, the following terms shall have the following meanings:

"Accounts" shall have the meaning set forth in Article 9 of the UCC.

"Article" means a numbered article of this Security Agreement, unless another document is specifically referenced.

"Assigned Contracts" means, collectively, all of the Grantors' rights and remedies under, and all moneys and claims for money due or to become due to the Grantors under any material contracts and any and all amendments, supplements, extensions, and renewals thereof including all rights and claims of the Grantors now or hereafter existing: (a) under any insurance, indemnities, warranties, and guarantees provided for or arising out of or in connection with any of the foregoing agreements; (b) for any damages arising out of or for breach or default under or in connection with any of the foregoing contracts; (c) to all other amounts from time to time paid or payable under or in connection with any of the foregoing agreements; or (d) to exercise or enforce any and all covenants, remedies, powers and privileges thereunder.

"Chattel Paper" shall have the meaning set forth in Article 9 of the UCC.

"Collateral" shall have the meaning set forth in Article II.

“Collateral Report” means any report delivered by the Company to the Agent or any Lender with respect to the Collateral pursuant to any Loan Document.

“Commercial Tort Claims” means those certain currently existing Commercial Tort Claims (as defined in the UCC) of the Grantors described on Exhibit I hereto, specifically describing the claims (i.e. parties, description of the dispute, case number - if available) and any future Commercial Tort Claims.

“Control” shall have the meaning set forth in Article 8 of the UCC or, if applicable, in Section 9-104, 9-105, 9-106 or 9-107 of Article 9 of the UCC.

“Copyrights” means, with respect to any Person, all of such Person’s right, title, and interest in and to the following: (a) all copyrights, rights and interests in copyrights, works protectable by copyright that are material in the operation of the business of such Person, copyright registrations, and copyright applications; (b) all renewals of any of the foregoing; (c) all income, royalties, damages, and payments now or hereafter due and/or payable under any of the foregoing, including, without limitation, damages or payments for past or future infringements or any of the foregoing; (d) the right to sue for past, present, and future infringements of any of the foregoing, including the right to settle suits involving claims and demands for royalties owing; and (e) all rights corresponding to any of the foregoing throughout the world.

“Default” means an event described in Section 5.1.

“Deposit Accounts” shall have the meaning set forth in Article 9 of the UCC.

“Documents” shall have the meaning set forth in Article 9 of the UCC.

“Equipment” shall have the meaning set forth in Article 9 of the UCC.

“Exhibit” refers to a specific exhibit to this Security Agreement, unless another document is specifically referenced.

“Fixtures” shall have the meaning set forth in Article 9 of the UCC.

“General Intangibles” shall have the meaning set forth in Article 9 of the UCC.

“Instruments” shall have the meaning set forth in Article 9 of the UCC.

“Inventory” shall have the meaning set forth in Article 9 of the UCC.

“Investment Property” shall have the meaning set forth in Article 9 of the UCC.

“Lenders” means the lenders party to the Credit Agreement and their successors and assigns.

“Letter-of-Credit Rights” shall have the meaning set forth in Article 9 of the UCC.

“Licenses” means, with respect to any Person, all of such Person’s right, title, and interest in and to (a) any and all licensing agreements or similar arrangements in and to its Patents, Copyrights, or Trademarks, (b) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect

thereto, including, without limitation, damages and payments for past and future breaches thereof. and (c) all rights to sue for past, present, and future breaches thereof.

“Patents” means, with respect to any Person, all of such Person’s right, title, and interest in and to: (a) any and all patents and patent applications; (b) all inventions and improvements described and claimed therein; (c) all reissues, divisions, continuations, renewals, extensions, and continuations-in-part thereof; (d) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past and future infringements thereof; (e) all rights to sue for past, present, and future infringements thereof, including the right to settle suits involving claims and demands for royalties owing; and (f) all rights corresponding to any of the foregoing throughout the world.

“Pledged Collateral” means all Instruments, Securities and other Investment Property physically delivered to the Agent pursuant to this Security Agreement.

“Pledged Deposits” means all time deposits of money (other than Deposit Accounts and Instruments), whether or not evidenced by certificates, which the Grantors may from time to time designate as pledged to the Agent or to any Lender as security for any Obligation, and all rights to receive interest on said deposits.

“Receivables” means any and all Accounts, Chattel Paper, Documents, Investment Property, Instruments, Pledged Deposits and any other rights or claims to receive money which are General Intangibles or which are otherwise included as Collateral.

“Required Secured Parties” means (a) prior to an acceleration of the obligations under the Credit Agreement, the Required Lenders, (b) after an acceleration of the obligations under the Credit Agreement but prior to the date upon which the Credit Agreement has terminated by its terms and all of the obligations thereunder have been paid in full, either: (x) Lenders holding in the aggregate at least 66⅔% of the total of (i) the Aggregate Credit Exposure and (ii) the aggregate net early termination payments and all other amounts then due and unpaid from the any Loan Party to any Lender under Rate Management Transactions, as determined by the Agent in its reasonable discretion (based on information supplied by the Lenders), or (y) the Required Lenders, and (c) after the Credit Agreement has terminated by its terms and all of the obligations under the Credit Agreement have been paid in full (whether or not the obligations under the Credit Agreement were ever accelerated), Lenders holding in the aggregate at least 66⅔% of the aggregate net early termination payments and all other amounts then due and unpaid from the Grantor to the Lenders under Rate Management Transactions, as determined by the Agent in its reasonable discretion.

“Section” means a numbered section of this Security Agreement, unless another document is specifically referenced.

“Security” has the meaning set forth in Article 8 of the UCC.

“Stock Rights” means all dividends, instruments or other distributions and any other right or property which the Grantors shall receive or shall become entitled to receive for any reason whatsoever with respect to, in substitution for or in exchange for any Capital Stock constituting Collateral and any Capital Stock, any right to receive Capital Stock and any right to receive earnings, in which the Grantors now have or hereafter acquire any right, issued by an issuer of such Capital Stock.

“Trademarks” means, with respect to any Person, all of such Person’s right, title, and interest in and to the following: (a) all trademarks (including service marks), trade names, trade dress, and trade styles and the registrations and applications for registration thereof and the goodwill of the business symbolized by the foregoing; (b) all licenses of the foregoing, whether as licensee or licensor; (c) all renewals of the foregoing; (d)

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all income, royalties, damages, and payments now or hereafter due or payable with respect thereto, including, without limitation, damages, claims, and payments for past and future infringements thereof; (e) all rights to sue for past, present, and future infringements of the foregoing, including the right to settle suits involving claims and demands for royalties owing; and (f) all rights corresponding to any of the foregoing throughout the world.

“UCC” means the Uniform Commercial Code, as in effect from time to time, of the State of Ohio or of any other state the laws of which are required as a result thereof to be applied in connection with the attachment, perfection or priority of, or remedies with respect to, Agent’s or any Lender’s Lien on any Collateral.

“Unmatured Default” means an event which but for the lapse of time or the giving of notice, or both, would constitute a Default hereunder.

The foregoing definitions shall be equally applicable to both the singular and plural forms of the defined terms.

ARTICLE II GRANT OF SECURITY INTEREST

Each Grantor hereby pledges, assigns and grants to the Agent, on behalf of and for the ratable benefit of the Lenders, a security interest in all of its right, title and interest in, to and under all personal property and other assets, whether now owned by or owing to, or hereafter acquired by or arising in favor of such Grantor (including under any trade name or derivations thereof), and whether owned or consigned by or to, or leased from or to, such Grantor, and regardless of where located, including the following assets of such Grantor:

- (i) all Accounts;
- (ii) all Chattel Paper;
- (iii) all Documents;
- (iv) all Equipment;
- (v) all Fixtures;
- (vi) all General Intangibles;
- (vii) all Instruments;
- (viii) all Inventory;
- (ix) all Investment Property;
- (x) all cash or cash equivalents;
- (xi) all letters of credit and Letter-of-Credit Rights;
- (xii) all Deposit Accounts with any bank or other financial institution;
- (xiii) all Commercial Tort Claims;
- (xiv) all Assigned Contracts;
- (xv) all Pledged Deposits; and
- (xvi) all accessions to, substitutions for and replacements, proceeds (including Stock Rights), insurance proceeds and products of the foregoing, together with all

books and records, customer lists, credit files, computer files, programs, printouts and other computer materials and records related thereto:

to secure the prompt and complete payment and performance of the Secured Obligations. For purposes of this Security Agreement, the aforementioned is collectively referred to as the "Collateral". Notwithstanding anything to the contrary above or in any other Loan Document, the security interests created by this Security Agreement shall not extend to, and the term "Collateral" shall not include, any of the items set forth on Exhibit I hereto.

ARTICLE III REPRESENTATIONS AND WARRANTIES

Each Grantor represents and warrants to the Agent and the Lenders that:

3.1. Title, Authorization, Perfection and Priority. Each Grantor has good and valid rights in or the power to transfer the Collateral and title to the Collateral with respect to which it has purported to grant a security interest hereunder, free and clear of all Liens except for Liens permitted under Section 4.1(e), and has full power and authority to grant to the Agent the security interest in such Collateral pursuant hereto. The execution and delivery by each Grantor of this Security Agreement has been duly authorized by proper corporate proceedings, and this Security Agreement constitutes a legal, valid and binding obligation of each Grantor except as such obligation may be limited by bankruptcy, insolvency or similar laws affecting the enforcement of creditors rights generally and general equitable principles and creates a security interest which is enforceable against each Grantor in all now owned and hereafter acquired Collateral. When financing statements have been filed against each Grantor in the appropriate office, the Agent will have a fully perfected first priority security interest in that portion of the Collateral in which a security interest may be perfected by filing, subject only to Liens permitted under Section 4.1(e).

3.2. Conflicting Laws and Contracts. Neither the execution and delivery by any Grantor of this Security Agreement, the creation and perfection of the security interest in the Collateral granted hereunder, nor compliance with the terms and provisions hereof will violate any law, rule, regulation, order, writ, judgment, injunction, decree or award binding on the Grantor except where such noncompliance or violation could not reasonably be expected to have a Material Adverse Effect, or the Grantor's organizational or governance documents, the provisions of any Material Indebtedness Agreement to which the Grantor is a party or is subject, or by which it, or its property, is bound, or conflict with or constitute a default thereunder, or result in the creation or imposition of any Lien pursuant to the terms of any such Material Indebtedness Agreement (other than any Lien in favor of the Agent on behalf of the Lenders).

3.3. Type and Jurisdiction of Organization, Organizational and Identification Numbers. The type of entity of each Grantor, its state of organization, the organizational number issued to it by its state of organization and its federal employer identification number are set forth on Exhibit A.

3.4. Principal Location. Each Grantor's mailing address and the location of its principal place of business (if it has only one) or its chief executive office (if it has more than one place of business), are disclosed in Exhibit A; no Grantor has other places of business except those set forth in Exhibit A.

3.5. Collateral Locations. All of Grantors' respective locations where Collateral is located are listed on Exhibit A. All of said locations are owned by a Grantor except for locations (a) which are leased by a Grantor as lessee and designated in Part VII(b) of Exhibit A and (b) at which Inventory is held in a public warehouse or is otherwise held by a bailee or on consignment as designated in Part VII(c) of Exhibit A, with

respect to which Inventory the Grantor has delivered Collateral Access Agreements to the extent required under the Credit Agreement.

3.6. Deposit Accounts. All of the Grantors' respective Deposit Accounts, except for petty cash accounts permitted by the Credit Agreement, are listed on Exhibit B.

3.7. Exact Names. Each Grantor's name in which it has executed this Security Agreement is the exact name as it appears in the Grantor's organizational documents, as amended, as filed with the Grantor's jurisdiction of organization.

3.8. Letter-of-Credit Rights and Chattel Paper. Exhibit C lists all Letter-of-Credit Rights and Chattel Paper of the Grantors. All action by the Grantors necessary or desirable to protect and perfect the Agent's Lien on each item listed on Exhibit C (including the delivery of all originals and the placement of a legend on all Chattel Paper as required hereunder) has been duly taken. Upon such delivery and with the appropriate legends, the Agent will have a fully perfected first priority security interest in the Collateral listed on Exhibit C, subject only to Liens permitted under Section 4.1(e).

3.9. Accounts and Chattel Paper.

(a) The names of the obligors, amounts owing, due dates and other information with respect to the Accounts and Chattel Paper are and will be correctly stated in all material respects in the records of the Grantor relating thereto and in all invoices and Collateral Reports with respect thereto furnished to the Agent by the Grantor from time to time. As of the time when each Account or each item of Chattel Paper arises, the Grantor shall be deemed to have represented and warranted that such Account or Chattel Paper, as the case may be, and all records relating thereto, are genuine and in all material respects what they purport to be.

(b) With respect to Accounts, except as specifically disclosed on the most recent Collateral Report, (i) all Accounts are Eligible Accounts (except those deemed ineligible by the Agent); (ii) all Accounts represent bona fide sales of Inventory or rendering of services to Account Debtors in the ordinary course of the Grantor's business and are not evidenced by a judgment, Instrument or Chattel Paper; (iii) there are no material setoffs, claims or disputes existing or asserted with respect thereto and the Grantor has not made any agreement with any Account Debtor for any material extension of time for the payment thereof, any compromise or settlement for materially less than the full amount thereof, any release of any Account Debtor from material liability therefor, or any material deduction therefrom except a discount or allowance allowed by Grantor in the ordinary course of its business for prompt payment; (iv) to Grantor's knowledge, there are no facts, events or occurrences which in any way impair the validity or enforceability thereof or could reasonably be expected to materially reduce the amount payable thereunder; (v) the Grantor has not received any notice of proceedings or actions which are threatened or pending against any Account Debtor which might result in any material adverse change in such Account Debtor's financial condition; and (vi) the Grantor has no knowledge that any Account Debtor is unable generally to pay its debts as they become due.

(c) In addition, with respect to all Accounts, (i) the amounts shown on all invoices, statements and Collateral Reports with respect thereto are actually and absolutely owing to the Grantor as indicated thereon and are not in any way contingent; (ii) except as permitted under the Credit Agreement, no payments have been or shall be made thereon except payments immediately delivered to a Locked Box or a Collateral Deposit Account as required pursuant to the Credit Agreement; and (iii) to the Grantor's knowledge, all Account Debtors have the capacity to contract.

3.10. Inventory. Except as disclosed on the most recent Collateral Report, (a) all Inventory is located

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at one of the Grantors' locations set forth on Exhibit A, (b) except as otherwise permitted under the Credit Agreement, no Inventory is now, or shall at any time or times hereafter be stored at any other location without the Agent's prior consent, and if the Agent gives such consent, the Grantor will concurrently therewith obtain, to the extent required by the Credit Agreement, a Collateral Access Agreement for each such location, (c) the Grantor has good, indefeasible and merchantable title to such Inventory and such Inventory is not subject to any Lien or security interest or document whatsoever except for the Lien granted to the Agent, for the benefit of the Agent and Lenders, and except for Permitted Liens, (d) such Inventory is Eligible Inventory (except for any items deemed ineligible by the Agent) of good and merchantable quality, free from any defects, and (e) the completion of manufacture, sale or other disposition of such Inventory by the Agent following a Default shall not require the consent of any Person and shall not constitute a breach or default under any contract or agreement to which the Grantor is a party or to which such property is subject.

3.11. Intellectual Property. Exhibit D sets forth a complete and accurate list of all of the Grantor's registered Intellectual Property Rights. This Security Agreement is effective to create a valid and continuing Lien and, upon filing of necessary UCC financing statements and this Security Agreement with the United States Copyright Office and the United States Patent and Trademark Office, fully perfected first priority security interests in favor of the Agent on the Grantor's Patents, Trademarks and Copyrights, such perfected security interests are enforceable as such as against any and all creditors of and purchasers from the Grantor and, upon the filing of appropriate financing statements listed on Exhibit H, all action necessary or desirable to protect and perfect the Agent's Lien on the Grantor's Patents, Trademarks or Copyrights shall have been duly taken.

3.12. Filing Requirements. None of the Equipment is covered by any certificate of title, except for the vehicles described in Part I of Exhibit E. None of the Collateral is of a type for which security interests or liens may be perfected by filing under any federal statute except for (a) the vehicles described in Part II of Exhibit E and (b) Patents, Trademarks and Copyrights held by the Grantor and described in Exhibit D. The street address of the property on which any Fixtures having a book value in excess of \$5,000,000 are located is set forth in Exhibit E together with the name and address of the current owner of each such property as shown on the Grantors' records.

3.13. No Financing Statements, Security Agreements. No financing statement or security agreement describing all or any portion of the Collateral which has not lapsed or been terminated naming the Grantor as debtor has been filed or is of record in any jurisdiction except (a) for financing statements or security agreements naming the Agent on behalf of the Lenders as the secured party, (b) as permitted by Section 4.1(e); and (c) financing statements filed and security agreements with respect to the Prior Agreements which will be terminated promptly after the initial Credit Extension under the Credit Agreement.

3.14. Pledged Collateral, Instruments and Other Investment Property.

(a) Exhibit G sets forth a complete and accurate list of all of the Pledged Collateral delivered to the Agent, Instruments, Securities and Investment Property owned by the Grantor. The Grantor is the direct, sole and beneficial owner and sole holder of record of each Instrument. Security and other type of Investment Property listed on Exhibit G as being owned by it, free and clear of any Liens, except for those permitted by Section 4.1(e) hereof. The Grantor further represents and warrants that (i) all such Instruments, Securities or other types of Investment Property which are Capital Stock of a Loan Party have been (to the extent such concepts are relevant with respect to such Instrument, Security or other type of Investment Property) duly authorized, validly issued, are fully paid and non-assessable, (ii) with respect to any certificates delivered to the Agent representing Capital Stock, either such certificates are Securities as defined in Article 8 of the UCC as a result of actions by the issuer or otherwise, or, if such certificates are not Securities, the Grantor has so informed the Agent so that the Agent may take steps to perfect its security interest therein as a

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General Intangible, (iii) all such Securities or other types of Investment Property held by a securities intermediary, if any, are covered by a control agreement among the Grantor, the securities intermediary and the Agent pursuant to which the Agent has Control and (iv) to the Grantor's knowledge, all Instruments which represent Indebtedness owed to the Grantor have been duly authorized, authenticated or issued and delivered by the issuer of such Indebtedness, are the legal, valid and binding obligation of such issuer and such issuer is not in default thereunder.

(b) In addition, (i) none of the Pledged Collateral has been issued or transferred by a Grantor in violation of the securities registration, securities disclosure or similar laws of any jurisdiction to which such issuance or transfer may be subject, (ii) there are existing no options, warrants, calls or commitments of any character whatsoever granted by a Grantor relating to the Pledged Collateral, and (iii) no consent, approval, authorization, or other action by, and no giving of notice, filing with, any governmental authority or any other Person is required for the pledge by the Grantor of the Pledged Collateral pursuant to this Security Agreement or for the execution, delivery and performance of this Security Agreement by the Grantor, or for the exercise by the Agent of the voting or other rights provided for in this Security Agreement or for the remedies in respect of the Pledged Collateral pursuant to this Security Agreement, except as may be required in connection with such disposition by laws affecting the offering and sale of securities generally.

(c) Except as set forth in Exhibit G, the Grantor owns 100% of the issued and outstanding Capital Stock which constitutes Pledged Collateral and none of the Pledged Collateral which represents Indebtedness (other than Indebtedness under the Intercompany Notes) owed to the Grantor is subordinated in right of payment to other Indebtedness or subject to the terms of an indenture.

ARTICLE IV COVENANTS

From the date of this Security Agreement, and thereafter until this Security Agreement is terminated:

4.1. General.

(a) Collateral Records. The Grantors will maintain books and records with respect to the Collateral that are complete and accurate in all material respects.

(b) Authorization to File Financing Statements; Ratification. Each Grantor hereby authorizes the Agent to file, and if requested will deliver to the Agent, all financing statements and other documents and take such other actions as may from time to time be reasonably requested by the Agent consistent with this Security Agreement and the Credit Agreement in order to maintain a first perfected security interest in and, if applicable, Control of, the Collateral. Any financing statement filed by the Agent may be filed in any filing office in any UCC jurisdiction and may (i) indicate the Collateral (A) as all assets of such Grantor or words of similar effect, regardless of whether any particular asset comprised in the Collateral falls within the scope of Article 9 of the UCC or such jurisdiction, or (B) by any other description which reasonably approximates the description contained in this Security Agreement, and (ii) contain any other information required by part 5 of Article 9 of the UCC for the sufficiency or filing office acceptance of any financing statement or amendment, including (A) whether such Grantor is an organization, the type of organization and any organization identification number issued to such Grantor, and (B) in the case of a financing statement filed as a fixture filing or indicating Collateral as as-extracted collateral or timber to be cut, a sufficient description of real Property to which the Collateral relates. Each Grantor also agrees to furnish any such information to the Agent promptly upon request. Each Grantor also ratifies its authorization for the Agent to have filed in any UCC jurisdiction any initial financing statements or amendments thereto if filed prior to the date hereof.

(c) Further Assurances.

(i) The Grantors agree to take any and all actions necessary to defend title to the Collateral against all persons and to defend the security interest of the Agent in the Collateral and the priority thereof against any Lien not expressly permitted hereunder.

(ii) The Grantors will permit the Agent or any Lender, by its representatives and agents (i) to inspect the Collateral, (ii) to examine and make copies of the records of the Grantors relating to the Collateral and (iii) to discuss the Collateral and the related records of the Grantors with, and to be advised as to the same by, the Grantors' officers and employees (and, in the case of any Receivable, with any person or entity which is or may be obligated thereon), all in accordance with, and subject to the limitations set forth in, the Credit Agreement.

(iii) Only to the extent expressly permitted by the Credit Agreement, the Agent may at any time, in the Agent's own name, in the name of a nominee of the Agent or in the name of a Grantor communicate (by mail, telephone, facsimile or otherwise) with the Account Debtors, parties to contracts and obligors in respect of Instruments to verify with such Persons, to the Agent's satisfaction, the existence, amount, terms of, and any other matter relating to, Accounts, Instructions, Chattel Paper, payment intangibles and/or other Receivables.

(d) Disposition of Collateral. The Grantors will not sell, lease or otherwise dispose of the Collateral except as specifically permitted pursuant to the Credit Agreement.

(e) Liens. The Grantors will not create, incur, or suffer to exist any Lien on the Collateral except (i) the security interest created by this Security Agreement, and (ii) other Permitted Liens.

(f) Other Financing Statements. Each Grantor acknowledges that it is not authorized to file any financing statement or amendment or termination statement with respect to any financing statement without the prior written consent of the Agent, subject to such Grantor's rights under Section 9-509(d)(2) of the UCC.

(g) Compliance with Terms. Each Grantor will perform and comply in all material respects with all obligations in respect of the Collateral and all agreements to which it is a party or by which it is bound relating to the Collateral.

4.2. Receivables.

(a) Certain Agreements on Receivables. The Grantors will not make or agree to make any discount, credit, rebate or other reduction in the original amount owing on a Receivable or accept in satisfaction of a Receivable less than the original amount thereof, except that, unless there is an existing Default, in accordance with their present policies and in the ordinary course of business.

(b) Collection of Receivables. Except as otherwise provided in this Security Agreement or the Credit Agreement, each Grantor will use commercially reasonable efforts to collect and enforce, at such Grantor's sole expense, all amounts due or hereafter due to such Grantor under the Receivables.

(c) Delivery of Invoices. The Grantors will deliver to the Agent immediately upon its reasonable request duplicate invoices with respect to each Account bearing such language of assignment as the Agent shall specify.

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(d) Disclosure of Counterclaims on Receivables. After the occurrence and during the continuation of a Default (i) any material discount, credit or agreement to make a rebate or to otherwise reduce the amount owing on a Receivable exists or (ii) if, to the knowledge of a Grantor, any material dispute, setoff, claim, counterclaim or defense exists or has been asserted or threatened with respect to a Receivable, such Grantor will disclose such fact to the Agent in writing.

(e) Electronic Chattel Paper. The Grantors shall take all steps necessary to grant the Agent Control of all electronic chattel paper in accordance with the UCC and all "transferable records" as defined in each of the Uniform Electronic Transactions Act and the Electronic Signatures in Global and National Commerce Act.

4.3. Inventory and Equipment.

(a) Maintenance of Goods. To the extent required by the Credit Agreement, the Grantors will do all things necessary to maintain, preserve, protect and keep the Inventory and the Equipment in good repair and working and saleable condition.

(b) Inventory Count; Perpetual Inventory System. Each Grantor will conduct a physical count of the Inventory consistent with its historical practices or as otherwise required in the conduct of its business, and after and during the continuation of a Default, at such other times as the Agent requests.

(c) Equipment. The Grantors shall promptly after the occurrence and during the continuation of a Default, inform the Agent of any material additions to or deletions from the Equipment. The Grantors shall not permit any Equipment to become a fixture with respect to real property or to become an accession with respect to other personal property with respect to which real or personal property the Agent does not have a Lien, except as may be permitted under the Credit Agreement. The Grantors will not, without the Agent's prior written consent, alter or remove any identifying symbol or number on any of the Grantors' Equipment constituting Collateral.

4.4. Delivery of Instruments, Securities, Chattel Paper and Documents. The Grantors will (a) deliver to the Agent immediately upon execution of this Security Agreement the originals of all Chattel Paper, Securities and Instruments constituting Collateral (if any then exist), (b) hold in trust for the Agent upon receipt and immediately thereafter deliver to the Agent any Chattel Paper, Securities and Instruments constituting Collateral, (c) upon the Agent's request, deliver to the Agent (and thereafter hold in trust for the Agent upon receipt and immediately deliver to the Agent) any Document evidencing or constituting Collateral and (d) upon the Agent's request, deliver to the Agent a duly executed amendment to this Security Agreement, in the form of Exhibit H hereto (the "Amendment"), pursuant to which the Grantors will pledge such additional Collateral. The Grantors hereby authorize the Agent to attach each Amendment to this Security Agreement and agrees that all additional Collateral set forth in such Amendments shall be considered to be part of the Collateral.

4.5. Uncertificated Securities and Certain Other Investment Property. The Grantors will permit the Agent from time to time to cause the appropriate issuers (and, if held with a securities intermediary, such securities intermediary) of uncertificated securities or other types of Investment Property not represented by certificates which are Collateral to mark their books and records with the numbers and face amounts of all such uncertificated securities or other types of Investment Property not represented by certificates and all rollovers and replacements therefor to reflect the Lien of the Agent granted pursuant to this Security Agreement. The Grantors will take any actions necessary to cause (a) the issuers of uncertificated securities which are Collateral and which are Securities and (b) any securities intermediary which is the holder of any Investment Property, to cause the Agent to have and retain Control over such Securities or other Investment Property. Without limiting

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the foregoing, the Grantors will, with respect to Investment Property held with a securities intermediary, cause such securities intermediary to enter into a control agreement with the Agent, in form and substance satisfactory to the Agent, giving the Agent Control.

4.6. Pledged Collateral.

(a) Changes in Capital Structure of Issuers. Except as permitted by the Credit Agreement, no Grantor will (i) permit or suffer any issuer of Capital Stock constituting Pledged Collateral to dissolve, merge, liquidate, retire any of its Capital Stock or other Instruments or Securities evidencing ownership, reduce its capital, sell or encumber all or substantially all of its assets (except for Permitted Liens and sales of assets permitted by the Credit Agreement) or merge or consolidate with any other entity, or (ii) vote any Pledged Collateral in favor of any of the foregoing.

(b) Issuance of Additional Securities. Except as permitted by the Credit Agreement, no Grantor will permit or suffer the issuer of Capital Stock constituting Pledged Collateral to issue additional Capital Stock, any right to receive the same or any right to receive earnings, except to such Grantor.

(c) Registration of Pledged Collateral. The Grantors will permit any registerable Pledged Collateral to be registered in the name of the Agent or its nominee at any time when a Default exists at the option of the Required Secured Parties.

(d) Exercise of Rights in Pledged Collateral.

(i) Without in any way limiting the foregoing, the Grantors shall have the right to exercise all voting rights or other rights relating to the Pledged Collateral for all purposes not inconsistent with this Security Agreement, the Credit Agreement or any other Loan Document; *provided however*, that no vote or other right shall be exercised or action taken which would have the effect of impairing the position of the Agent in respect of the Pledged Collateral.

(ii) The Grantors will permit the Agent or its nominee at any time after the occurrence and during the continuance of a Default, without notice, to exercise all voting rights or other rights relating to Pledged Collateral, including, without limitation, exchange, subscription or any other rights, privileges, or options pertaining to any Capital Stock or Investment Property constituting Pledged Collateral as if it were the absolute owner thereof.

(iii) Each Grantor shall be entitled to collect and receive for its own use all cash dividends and interest paid in respect of the Pledged Collateral to the extent not in violation of the Credit Agreement other than any of the following distributions and payments (collectively referred to as the "Excluded Payments"): (A) dividends and interest paid or payable other than in cash in respect of any Pledged Collateral, and instruments and other property received, receivable or otherwise distributed in respect of, or in exchange for, any Pledged Collateral; (B) dividends and other distributions paid or payable in cash in respect of any Pledged Collateral in connection with a partial or total liquidation or dissolution or in connection with a reduction of capital, capital surplus or paid-in capital of an issuer; and (C) cash paid, payable or otherwise distributed, in respect of principal of, or in redemption of, or in exchange for, any Pledged Collateral; *provided however, that* until actually paid, all rights to such distributions shall remain subject to the Lien created by this Security Agreement; and

(iv) All Excluded Payments and all other distributions in respect of any of the Pledged Collateral, whenever paid or made, shall be delivered to the Agent to hold as Pledged

Collateral and shall, if received by such Grantor, be received in trust for the benefit of the Agent, be segregated from the other property or funds of such Grantor, and be forthwith delivered to the Agent as Pledged Collateral in the same form as so received (with any necessary endorsement).

4.7 Intellectual Property.

(a) After the occurrence and during the continuance of a Default, each Grantor will use its best efforts to secure all consents and approvals necessary or appropriate for the assignment to or benefit of the Agent of any License held by such Grantor and to enforce the security interests granted hereunder.

(b) Each Grantor shall notify the Agent immediately if it knows or has reason to know that any application or registration relating to any Patent, Trademark or Copyright (now or hereafter existing) that is material to the business of the Grantors, taken as a whole, may become abandoned or dedicated, or of any material adverse determination or development (including the institution of, or any such determination or development in, any proceeding in the United States Patent and Trademark Office, the United States Copyright Office or any court) regarding such Grantor's ownership of any Patent, Trademark or Copyright, its right to register the same, or to keep and maintain the same.

(c) If a Grantor, either directly or through any agent, employee, licensee or designee, files an application for the registration of any Patent, Trademark or Copyright with the United States Patent and Trademark Office, the United States Copyright Office or any similar office or agency, it will provide the Agent prompt written notice, and in no event later than five Business Days thereof, and, upon request of the Agent, such Grantor shall execute and deliver any and all security agreements as the Agent may request to evidence the Agent's first priority security interest on such Patent, Trademark or Copyright, and the General Intangibles of such Grantor relating thereto or represented thereby.

(d) To the extent necessary for the continued conduct of the Grantors' businesses, taken as a whole, the Grantors shall take all actions necessary or reasonably requested by the Agent to maintain and pursue each application, to obtain the relevant registration and to maintain the registration of each of the Patents, Trademarks and Copyrights (now or hereafter existing), including the filing of applications for renewal, affidavits of use, affidavits of noncontestability and opposition and interference and cancellation proceedings.

(e) Each Grantor shall, unless it shall reasonably determine that such Patent, Trademark or Copyright is not material to the conduct of its business or operations, promptly sue for infringement, misappropriation or dilution and to recover any and all damages for such infringement, misappropriation or dilution, and shall take such other actions as the Agent shall reasonably deem appropriate under the circumstances to protect such Patent, Trademark or Copyright. In the event that such Grantor institutes suit because any of the Patents, Trademarks or Copyrights constituting Collateral is infringed upon, or misappropriated or diluted by a third party, such Grantor shall comply with Section 4.8.

4.8 Commercial Tort Claims. Each Grantor shall promptly, and in any event within five Business Days after the same is acquired by it, notify the Agent of any Commercial Tort Claim acquired by it and, unless the Agent otherwise consents, such Grantor shall enter into a supplement to this Security Agreement, granting to Agent a first priority security interest in such commercial tort claim.

4.9 Letter-of-Credit Rights. If a Grantor is or becomes the beneficiary of a letter of credit, such Grantor shall promptly, and in any event within five Business Days after becoming a beneficiary, notify the Agent thereof and use commercially reasonable efforts to cause the issuer and or confirmation bank to (1)

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consent to the assignment of any Letter-of-Credit Rights to the Agent and (ii) to the extent required by the Credit Agreement, agree to direct all payments thereunder to a Deposit Account at the Agent or subject to a Deposit Account Control Agreement for application to the Secured Obligations, in accordance with Section 2.18 of the Credit Agreement, all in form and substance reasonably satisfactory to the Agent.

4.10 Federal, State or Municipal Claims. The Grantors will notify the Agent of any Collateral which constitutes a claim against the United States government or any state or local government or any instrumentality or agency thereof, the assignment of which claim is restricted by federal, state or municipal law.

4.11 No Interference. The Grantors agree that they will not interfere with any right, power and remedy of the Agent provided for in this Security Agreement or now or hereafter existing at law or in equity or by statute or otherwise, or the exercise or beginning of the exercise by the Agent of any one or more of such rights, powers or remedies.

4.12 Assigned Contracts. Each Grantor will use commercially reasonable efforts to secure all consents and approvals necessary or appropriate for the assignment to or for the benefit of the Agent of any Assigned Contract held by such Grantor and to enforce the security interests granted hereunder. Each Grantor shall fully perform all of its obligations under each of the Assigned Contracts, and shall enforce all of its rights and remedies thereunder, in each case, as it deems appropriate in its business judgment; *provided however*, that a Grantor shall not take any action or fail to take any action with respect to its Assigned Contracts which would cause the termination of a material Assigned Contract. Without limiting the generality of the foregoing, each Grantor shall take all action necessary or appropriate to permit, and shall not take any action which would have any materially adverse effect upon, the full enforcement of all indemnification rights under its Assigned Contracts. Each Grantor shall notify the Agent and the Lenders in writing, promptly after it becomes aware thereof, of any event or fact which could give rise to a material claim by it for indemnification under any of its Assigned Contracts, and shall diligently pursue such right and report to the Agent on all further developments with respect thereto. Each Grantor shall deposit into a Deposit Account at the Agent or subject to a Deposit Account Control Agreement for application to the Secured Obligations, in accordance with Section 2.18 of the Credit Agreement, all amounts received by such Grantor as indemnification or otherwise pursuant to its Assigned Contracts. If a Grantor shall fail after the Agent's demand to pursue diligently any right under its Assigned Contracts, or if a Default then exists, the Agent may, and at the direction of the Required Secured Parties shall, directly enforce such right in its own or such Grantor's name and may enter into such settlements or other agreements with respect thereto as the Agent or the Required Secured Parties, as applicable, shall determine. In any suit, proceeding or action brought by the Agent for the benefit of the Lenders under any Assigned Contract for any sum owing thereunder or to enforce any provision thereof, the applicable Grantor shall indemnify and hold the Agent and Lenders harmless from and against all expense, loss or damage suffered by reason of any defense, setoff, counterclaims, recoupment, or reduction of liability whatsoever of the obligor thereunder arising out of a breach by such Grantor of any obligation thereunder or arising out of any other agreement, indebtedness or liability at any time owing from such Grantor to or in favor of such obligor or its successors. All such obligations of the Grantors shall be and remain enforceable only against the Grantors and shall not be enforceable against the Agent or the Lenders. Notwithstanding any provision hereof to the contrary, each Grantor shall at all times remain liable to observe and perform all of its duties and obligations under its Assigned Contracts, and the Agent's or any Lender's exercise of any of their respective rights with respect to the Collateral shall not release such Grantor from any of such duties and obligations. Neither the Agent nor any Lender shall be obligated to perform or fulfill any of the Grantors' duties or obligations under their Assigned Contracts or to make any payment thereunder, or to make any inquiry as to the nature or sufficiency of any payment or property received by them thereunder or the sufficiency of performance by any party thereunder, or to present or file any claim, or to take any action to collect or enforce any performance, any payment of any amounts, or any delivery of any property.

4.13. Negotiable Documents; Bills of Lading. All Documents issued with respect to any Collateral shall be non-negotiable Documents and no Grantor will knowingly permit any Person to issue a negotiable Document with respect to any Collateral (including, without limitation, any bill of lading with respect to any Inventory in transit to any Grantor), provided in the event any negotiable Document is inadvertently issued with respect to any Collateral, such Grantor shall comply with the terms and conditions of the immediately following sentence within fifteen (15) days after such Document is issued. In the event that any negotiable Document is issued with respect to any Collateral, such Grantor shall promptly deliver all copies of such negotiable Document to the Agent or to such Persons as the Agent may designate to act as an agent or bailee of the Agent for the purposes of perfection of the Agent's security interest in such negotiable Document and the Inventory covered thereby. Each Grantor shall cause all bills of lading to be issued naming such Grantor or an agent of such Grantor approved by the Agent (but in no case the seller or vendor of the Goods or Inventory that are the subject bill of lading) as the "shipper" under such bill of lading. At the Agent's reasonable request, each Grantor shall cooperate with the Agent in giving notice of the Agent's security interest in the Collateral to all parties involved in the shipment or transportation of Collateral to such Grantor, including, without limitation, all sellers, vendors, shippers, expeditors, transporters, customs agents or other agents of such Grantor. Notwithstanding the foregoing or anything to the contrary in this Agreement or any Loan Document, upon the Agent's request during the continuance of any Default, each Grantor shall cause all Documents to be issued to the Agent as consignee instead of the Grantor, provided, that such issuance shall in no event obligate the Agent to pay any expenses of the Grantor with respect to such shipment or bill of lading. In the event that the Agent shall pay, on behalf of the Grantor, any expenses related to any Collateral that is the subject of any Document (including, without limitation, any shipping costs, customs duties or other fees), such Grantor shall promptly reimburse the Agent for payment of such expenses.

ARTICLE V DEFAULT

5.1. The occurrence of any one or more of the following events shall constitute a Default hereunder:

- (a) Any representation or warranty made by or on behalf of a Grantor under or in connection with this Security Agreement shall be materially false as of the date on which made.
- (b) The failure of a Grantor to comply with any covenant hereunder requiring the payment of money to the Agent or Lenders.
- (c) The breach by a Grantor of any of the terms or provisions of this Security Agreement, not requiring the payment of money to the Agent or the Lenders which is not remedied within 30 days after such breach.
- (d) Any material portion of the Collateral shall be transferred or otherwise disposed of, either voluntarily or involuntarily, or shall be lost, stolen, damaged or destroyed, except as otherwise permitted by the Credit Agreement.
- (e) The occurrence of any "Default" under, and as defined in, the Credit Agreement.

5.2. Remedies.

- (a) Upon the occurrence and during the continuance of a Default, the Agent may, with the concurrence or at the direction of the Required Secured Parties, exercise any or all of the following rights and remedies:

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(i) those rights and remedies provided in this Security Agreement, the Credit Agreement, or any other Loan Document; *provided that*, this Section 5.2(a) shall not be understood to limit any rights or remedies available to the Agent and the Lenders prior to a Default;

(ii) those rights and remedies available to a secured party under the UCC (whether or not the UCC applies to the affected Collateral) or under any other applicable law (including, without limitation, any law governing the exercise of a bank's right of setoff or bankers' lien) when a debtor is in default under a security agreement;

(iii) give notice of sole control or any other instruction under any Deposit Account Control Agreement or any other control agreement with any securities intermediary and take any action therein with respect to such Collateral;

(iv) without notice (except as specifically provided in Section 8.1 or elsewhere herein), demand or advertisement of any kind to any Grantor or any other Person, enter the premises of a Grantor where any Collateral is located (through self-help and without judicial process) to collect, receive, assemble, process, appropriate, sell, lease, assign, grant an option or options to purchase or otherwise dispose of, deliver, or realize upon, the Collateral or any part thereof in one or more parcels at public or private sale or sales (which sales may be adjourned or continued from time to time with or without notice and may take place at the Grantors' premises or elsewhere), for cash, on credit or for future delivery without assumption of any credit risk, and upon such other terms as the Agent may deem commercially reasonable; and

(v) concurrently with written notice to a Grantor, transfer and register in its name or in the name of its nominee the whole or any part of the Pledged Collateral, to exchange certificates or instruments representing or evidencing Pledged Collateral for certificates or instruments of smaller or larger denominations, to exercise the voting and all other rights as a holder with respect thereto, to collect and receive all cash dividends, interest, principal and other distributions made thereon and to otherwise act with respect to the Pledged Collateral as though the Agent was the outright owner thereof.

(b) The Agent, on behalf of the Lenders, shall comply with any applicable state or federal law requirements in connection with a disposition of the Collateral and such compliance will not be considered to adversely affect the commercial reasonableness of any sale of the Collateral.

(c) The Agent shall have the right upon any such public sale or sales and, to the extent permitted by law, upon any such private sale or sales, to purchase for the benefit of the Agent and the Lenders, the whole or any part of the Collateral so sold, free of any right of equity redemption, which equity redemption the Grantors hereby expressly release.

(d) Until the Agent is able to effect a sale, lease, or other disposition of Collateral, the Agent shall have the right to hold or use Collateral, or any part thereof, to the extent that it deems appropriate for the purpose of preserving Collateral or its value or for any other purpose deemed appropriate by the Agent. The Agent may, if it so elects, seek the appointment of a receiver or keeper to take possession of Collateral and to enforce any of the Agent's remedies (for the benefit of the Agent and Lenders), with respect to such appointment without prior notice or hearing as to such appointment.

(e) If, after the Credit Agreement has terminated by its terms and all of the Obligations have been paid in full, there remain Rate Management Obligations outstanding, the Required Secured Parties may exercise the remedies provided in this Section 5.2 upon the occurrence of any event which would allow or require the termination or acceleration of any Rate Management Obligations pursuant to the terms of the agreement governing any Rate Management Transaction.

(f) Notwithstanding the foregoing, neither the Agent nor the Lenders shall be required to (i) make any demand upon, or pursue or exhaust any of their rights or remedies against, any Grantor, any other obligor, guarantor, pledgor or any other Person with respect to the payment of the Secured Obligations or to pursue or exhaust any of their rights or remedies with respect to any Collateral therefor or any direct or indirect guarantee thereof, (ii) marshal the Collateral or any guarantee of the Secured Obligations or to resort to the Collateral or any such guarantee in any particular order, or (iii) effect a public sale of any Collateral.

(g) The Grantors recognize that the Agent may be unable to effect a public sale of any or all the Pledged Collateral and may be compelled to resort to one or more private sales thereof in accordance with clause (a) above. The Grantors also acknowledge that any private sale may result in prices and other terms less favorable to the seller than if such sale were a public sale and, notwithstanding such circumstances, agree that any such private sale shall not be deemed to have been made in a commercially unreasonable manner solely by virtue of such sale being private. The Agent shall be under no obligation to delay a sale of any of the Pledged Collateral for the period of time necessary to permit any Grantor or the issuer of the Pledged Collateral to register such securities for public sale under the Securities Act of 1933, as amended, or under applicable state securities laws, even if the applicable Grantor and the issuer would agree to do so.

5.3. Grantors' Obligations Upon Default. Upon the request of the Agent after the occurrence and during the continuance of a Default, each Grantor will:

(a) assemble and make available to the Agent the Collateral and all books and records relating thereto at any place or places reasonably specified by the Agent, whether at such Grantor's premises or elsewhere; and

(b) permit the Agent, by the Agent's representatives and agents, to enter any premises where all or any part of the Collateral, or the books and records relating thereto, or both, are located, to take possession of all or any part of the Collateral or the books and records relating thereto, or both, to remove all or any part of the Collateral or the books and records relating thereto, or both, and to conduct sales of the Collateral.

5.4. Grant of Intellectual Property License. For the purpose of enabling the Agent to exercise the rights and remedies under this Article V at such time as the Agent shall be lawfully entitled to exercise such rights and remedies, the Grantors hereby (a) grant to the Agent, for the benefit of the Agent and the Lenders, an irrevocable, nonexclusive license (exercisable without payment of royalty or other compensation to the Grantors) to use, license or sublicense any Intellectual Property Rights now owned or hereafter acquired by the Grantors, and wherever the same may be located, and including in such license access to all media in which any of the licensed items may be recorded or stored and to all computer software and programs used for the compilation or printout thereof and (b) irrevocably agree that the Agent may sell any of the Grantors' Inventory directly to any person, including without limitation persons who have previously purchased the Grantor's Inventory from the Grantors and in connection with any such sale or other enforcement of the Agent's rights under this Security Agreement, may sell Inventory which bears any Trademark owned by or licensed to any Grantor and any Inventory that is covered by any Copyright owned by or licensed to any Grantor and the Agent may finish any work in process and affix any Trademark owned by or licensed to any Grantor and sell such Inventory as provided herein.

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ARTICLE VI
ATTORNEY IN FACT; PROXY

6.1. Authorization for Secured Party to Take Certain Action. Subject to the terms of the Credit Agreement, each Grantor irrevocably authorizes the Agent at any time and from time to time in the sole discretion of the Agent and appoints the Agent as its attorney in fact (i) to execute on behalf of such Grantor as debtor and to file financing statements necessary or desirable in the Agent's sole discretion to perfect and to maintain the perfection and priority of the Agent's security interest in the Collateral, (ii) to endorse and collect any cash proceeds of the Collateral, (iii) to file a carbon, photographic or other reproduction of this Security Agreement or any financing statement with respect to the Collateral as a financing statement and to file any other financing statement or amendment of a financing statement (which does not add new collateral or add a debtor) in such offices as the Agent in its sole discretion deems necessary or desirable to perfect and to maintain the perfection and priority of the Agent's security interest in the Collateral, (iv) to contact and enter into one or more agreements with the issuers of uncertificated securities which are Collateral and which are Securities or with securities intermediaries holding other Investment Property as may be necessary or advisable to give the Agent Control over such Securities or other Investment Property, (v) to enforce payment of the Receivables in the name of the Agent or such Grantor, (vi) to apply the proceeds of any Collateral received by the Agent to the Secured Obligations as provided in the Credit Agreement and (vii) to discharge past due taxes, assessments, charges, fees or Liens on the Collateral (except for such Liens as are specifically permitted hereunder), and each Grantor agrees to reimburse the Agent on demand for any payment made or any expense incurred by the Agent in connection therewith; *provided that*, this authorization shall not relieve any Grantor of any of its obligations under this Security Agreement or under the Credit Agreement.

6.2. **PROXY.** SUBJECT TO THE LIMITATIONS SET FORTH IN THIS SECURITY AGREEMENT AND SUBJECT TO THE CREDIT AGREEMENT, (A) EACH GRANTOR HEREBY IRREVOCABLY CONSTITUTES AND APPOINTS THE AGENT AS THE PROXY AND ATTORNEY-IN-FACT OF SUCH GRANTOR WITH RESPECT TO THE PLEDGED COLLATERAL, INCLUDING THE RIGHT TO VOTE SUCH COLLATERAL, WITH FULL POWER OF SUBSTITUTION TO DO SO, AND (B) THE APPOINTMENT OF THE AGENT AS PROXY AND ATTORNEY-IN-FACT IS COUPLED WITH AN INTEREST AND SHALL BE IRREVOCABLE UNTIL THE DATE ON WHICH THIS SECURITY AGREEMENT IS TERMINATED IN ACCORDANCE WITH SECTION 8.15. IN ADDITION TO THE RIGHT TO VOTE ANY SUCH COLLATERAL, THE APPOINTMENT OF THE AGENT AS PROXY AND ATTORNEY-IN-FACT SHALL INCLUDE THE RIGHT TO EXERCISE ALL OTHER RIGHTS, POWERS, PRIVILEGES AND REMEDIES TO WHICH A HOLDER OF SUCH COLLATERAL WOULD BE ENTITLED (INCLUDING GIVING OR WITHHOLDING WRITTEN CONSENTS OF SHAREHOLDERS, CALLING SPECIAL MEETINGS OF SHAREHOLDERS AND VOTING AT SUCH MEETINGS). SUCH PROXY SHALL BE EFFECTIVE, AUTOMATICALLY AND WITHOUT THE NECESSITY OF ANY ACTION (INCLUDING ANY TRANSFER OF ANY SUCH COLLATERAL ON THE RECORD BOOKS OF THE ISSUER THEREOF) BY ANY PERSON (INCLUDING THE ISSUER OF SUCH COLLATERAL OR ANY OFFICER OR THE AGENT THEREOF), UPON THE OCCURRENCE AND DURING THE CONTINUANCE OF A DEFAULT. NOTWITHSTANDING THE FOREGOING, NEITHER THE AGENT NOR ANY LENDER SHALL HAVE ANY DUTY TO EXERCISE ANY SUCH RIGHT OR TO PRESERVE THE SAME AND SHALL NOT BE LIABLE FOR ANY FAILURE TO DO SO OR FOR ANY DELAY IN DOING SO.

ARTICLE VII
GENERAL PROVISIONS

7.1. Waivers. Each Grantor hereby waives notice of the time and place of any public sale or the time after which any private sale or other disposition of all or any part of the Collateral may be made. To the

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extent such notice may not be waived under applicable law, any notice made shall be deemed reasonable if sent to the Company, addressed as set forth in Article VIII, at least 10 days prior to (i) the date of any such public sale or (ii) the time after which any such private sale or other disposition may be made. To the maximum extent permitted by applicable law, each Grantor waives all claims, damages, and demands against the Agent or any Lender arising out of the repossession, retention or sale of the Collateral, except such as arise solely out of the gross negligence or willful misconduct of the Agent or such Lender as finally determined by a court of competent jurisdiction. To the extent it may lawfully do so, each Grantor absolutely and irrevocably waives and relinquishes the benefit and advantage of, and covenants not to assert against the Agent or any Lender, any valuation, stay, appraisal, extension, moratorium, redemption or similar laws and any and all rights or defenses it may have as a surety now or hereafter existing which, but for this provision, might be applicable to the sale of any Collateral made under the judgment, order or decree of any court, or privately under the power of sale conferred by this Security Agreement, or otherwise. Except as otherwise specifically provided herein, each Grantor hereby waives presentment, demand, protest or any notice (to the maximum extent permitted by applicable law) of any kind in connection with this Security Agreement or any Collateral.

7.2. Limitation on Agent's and Lenders' Duty with Respect to the Collateral. [Except to the extent achieved using the Clean-Up Reserve], the Agent shall have no obligation to clean-up or otherwise prepare the Collateral for sale. The Agent and each Lender shall use reasonable care with respect to the Collateral in its possession or under its control. Neither the Agent nor any Lender shall have any other duty as to any Collateral in its possession or control or in the possession or control of any agent or nominee of the Agent or such Lender, or any income thereon or as to the preservation of rights against prior parties or any other rights pertaining thereto. To the extent that applicable law imposes duties on the Agent to exercise remedies in a commercially reasonable manner, each Grantor acknowledges and agrees that it is commercially reasonable for the Agent (a) to fail to incur expenses [beyond the Clean-Up Reserve] deemed significant by the Agent to prepare Collateral for disposition or otherwise to transform raw material or work in process into finished goods or other finished products for disposition, (b) to fail to obtain third party consents for access to Collateral to be disposed of, or to obtain or, if not required by other law, to fail to obtain governmental or third party consents for the collection or disposition of Collateral to be collected or disposed of, (c) to fail to exercise collection remedies against Account Debtors or other Persons obligated on Collateral or to remove Liens on or any adverse claims against Collateral, (d) to exercise collection remedies against Account Debtors and other Persons obligated on Collateral directly or through the use of collection agencies and other collection specialists, (e) to advertise dispositions of Collateral through publications or media of general circulation, whether or not the Collateral is of a specialized nature, (f) to contact other Persons, whether or not in the same business as such Grantor, for expressions of interest in acquiring all or any portion of such Collateral, (g) to hire one or more professional auctioneers to assist in the disposition of Collateral, whether or not the Collateral is of a specialized nature, (h) to dispose of Collateral by utilizing internet sites that provide for the auction of assets of the types included in the Collateral or that have the reasonable capacity of doing so, or that match buyers and sellers of assets, (i) to dispose of assets in wholesale rather than retail markets, (j) to disclaim disposition warranties, such as title, possession or quiet enjoyment, (k) to purchase insurance or credit enhancements to insure the Agent against risks of loss, collection or disposition of Collateral or to provide to the Agent a guaranteed return from the collection or disposition of Collateral, or (l) to the extent deemed appropriate by the Agent, to obtain the services of other brokers, investment bankers, consultants and other professionals to assist the Agent in the collection or disposition of any of the Collateral. The Grantors acknowledge that the purpose of this Section 7.2 is to provide non-exhaustive indications of what actions or omissions by the Agent would be commercially reasonable in the Agent's exercise of remedies against the Collateral and that other actions or omissions by the Agent shall not be deemed commercially unreasonable solely on account of not being indicated in this Section 7.2. Without limitation upon the foregoing, nothing contained in this Section 7.2 shall be construed to grant any rights to the Grantors or to impose any duties on the Agent that would not have been granted or imposed by this Security Agreement or by applicable law in the absence of this Section 7.2.

7.3. Compromises and Collection of Collateral. The Grantors and the Agent recognize that setoffs, counterclaims, defenses and other claims may be asserted by obligors with respect to certain of the Receivables, that certain of the Receivables may be or become uncollectible in whole or in part and that the expense and probability of success in litigating a disputed Receivable may exceed the amount that reasonably may be expected to be recovered with respect to a Receivable. In view of the foregoing, each Grantor agrees that the Agent may at any time and from time to time, if a Default has occurred and is continuing, compromise with the obligor on any Receivable, accept in full payment of any Receivable such amount as the Agent in its sole discretion shall determine or abandon any Receivable, and any such action by the Agent shall be commercially reasonable so long as the Agent acts in good faith based on information known to it at the time it takes any such action.

7.4. Secured Party Performance of Debtor Obligations. Without having any obligation to do so, the Agent may, upon notice to the Company, perform or pay any obligation that a Grantor has agreed to perform or pay in this Security Agreement and such Grantor shall reimburse the Agent for any amounts paid by the Agent pursuant to this Section 7.4. Such Grantor's obligation to reimburse the Agent pursuant to the preceding sentence shall be a Secured Obligation payable on demand.

7.5. Use and Possession of Certain Premises. Upon the occurrence and during the continuance of a Default, subject to the rights of owners, lessors and occupants of such premises, the Agent shall be entitled to occupy and use any premises owned or leased by the Grantors where any of the Collateral or any records relating to the Collateral are located until the Secured Obligations are paid or the Collateral is removed therefrom, whichever first occurs, without any obligation to pay the Grantors for such use and occupancy.

7.6. Dispositions Not Authorized. No Grantor is authorized to sell or otherwise dispose of the Collateral except as set forth in the Credit Agreement and notwithstanding any course of dealing between such Grantor and the Agent or other conduct of the Agent, no authorization to sell or otherwise dispose of the Collateral (except as set forth in the Credit Agreement) shall be binding upon the Agent or the Lenders unless such authorization is in writing signed by the Agent with the consent or at the direction of the Required Secured Parties.

7.7. No Waiver; Amendments; Cumulative Remedies. No delay or omission of the Agent or any Lender to exercise any right or remedy granted under this Security Agreement shall impair such right or remedy or be construed to be a waiver of any Default or an acquiescence therein, and any single or partial exercise of any such right or remedy shall not preclude any other or further exercise thereof or the exercise of any other right or remedy. No waiver, amendment or other variation of the terms, conditions or provisions of this Security Agreement whatsoever shall be valid unless in writing signed by the Agent with the concurrence or at the direction of the Lenders required under Section 8.3 of the Credit Agreement and then only to the extent in such writing specifically set forth. All rights and remedies contained in this Security Agreement or by law afforded shall be cumulative and all shall be available to the Agent and the Lenders until the Secured Obligations have been paid in full.

7.8. Limitation by Law; Severability of Provisions. All rights, remedies and powers provided in this Security Agreement may be exercised only to the extent that the exercise thereof does not violate any applicable provision of law, and all the provisions of this Security Agreement are intended to be subject to all applicable mandatory provisions of law that may be controlling and to be limited to the extent necessary so that they shall not render this Security Agreement invalid, unenforceable or not entitled to be recorded or registered, in whole or in part. Any provision in any this Security Agreement that is held to be inoperative, unenforceable, or invalid in any jurisdiction shall, as to that jurisdiction, be inoperative, unenforceable, or invalid without affecting the remaining provisions in that jurisdiction or the operation, enforceability, or validity of that provision in any other jurisdiction, and to this end the provisions of this Security Agreement are declared to be

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severable.

7.9. Reinstatement. This Security Agreement shall remain in full force and effect and continue to be effective should any petition be filed by or against any Grantor for liquidation or reorganization, should any Grantor become insolvent or make an assignment for the benefit of any creditor or creditors or should a receiver or trustee be appointed for all or any significant part of any Grantor's assets, and shall continue to be effective or be reinstated, as the case may be, if at any time payment and performance of the Secured Obligations, or any part thereof, is, pursuant to applicable law, rescinded or reduced in amount, or must otherwise be restored or returned by any obligee of the Secured Obligations, whether as a "voidable preference," "fraudulent conveyance," or otherwise, all as though such payment or performance had not been made. In the event that any payment, or any part thereof, is rescinded, reduced, restored or returned, the Secured Obligations shall be reinstated and deemed reduced only by such amount paid and not so rescinded, reduced, restored or returned.

7.10. Benefit of Agreement. The terms and provisions of this Security Agreement shall be binding upon and inure to the benefit of each Grantor, the Agent and the Lenders and their respective successors and assigns (including all persons who become bound as a debtor to this Security Agreement), except that no Grantor shall have the right to assign its rights or delegate its obligations under this Security Agreement or any interest herein, without the prior written consent of the Agent. No sales of participations, assignments, transfers, or other dispositions of any agreement governing the Secured Obligations or any portion thereof or interest therein shall in any manner impair the Lien granted to the Agent, for the benefit of the Agent and the Lenders, hereunder.

7.11. Survival of Representations. All representations and warranties of the Grantors contained in this Security Agreement shall survive the execution and delivery of this Security Agreement.

7.12. Taxes and Expenses. Any taxes (including income taxes) payable or ruled payable by Federal or state authority in respect of this Security Agreement shall be paid by the Grantors, jointly and severally together with interest and penalties, if any. The Grantors shall reimburse the Agent for any and all out-of-pocket expenses and internal charges (including reasonable attorneys', auditors' and accountants' fees) paid or incurred by the Agent in connection with the preparation, execution, delivery, administration, collection and enforcement of this Security Agreement and in the audit, analysis, administration, collection, preservation or sale of the Collateral (including the expenses and charges associated with any periodic or special audit of the Collateral) as provided in the Credit Agreement. Any and all costs and expenses incurred by the Grantors in the performance of actions required pursuant to the terms hereof shall be borne jointly and severally by the Grantors.

7.13. Headings. The title of and section headings in this Security Agreement are for convenience of reference only, and shall not govern the interpretation of any of the terms and provisions of this Security Agreement.

7.14. Termination. This Security Agreement shall continue in effect (notwithstanding the fact that from time to time there may be no Secured Obligations outstanding) until (i) the Credit Agreement has terminated pursuant to its express terms and (ii) all of the Secured Obligations have been indefeasibly paid and performed in full and no commitments of the Agent or the Lenders which would give rise to any Secured Obligations are outstanding.

7.15. Entire Agreement. This Security Agreement, together with the Credit Agreement and the Utah Deed of Trust, embodies the entire agreement and understanding between the Grantors and the Agent relating to the Collateral and supersedes all prior agreements and understandings between any Grantor and the Agent relating to the Collateral.

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7.16. CHOICE OF LAW. THIS SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE INTERNAL LAWS (AND NOT THE LAW OF CONFLICTS) OF THE STATE OF OHIO, BUT GIVING EFFECT TO FEDERAL LAWS APPLICABLE TO NATIONAL BANKS.

7.17. CONSENT TO JURISDICTION. THE GRANTORS, THE AGENT AND THE LENDERS HEREBY IRREVOCABLY SUBMIT TO THE NON-EXCLUSIVE JURISDICTION OF ANY U.S. FEDERAL OR OHIO STATE COURT SITTING IN CLEVELAND, OHIO IN ANY ACTION OR PROCEEDING ARISING OUT OF OR RELATING TO THIS SECURITY AGREEMENT OR ANY OTHER LOAN DOCUMENT AND THE GRANTORS, THE AGENT AND THE LENDERS HEREBY IRREVOCABLY AGREE THAT ALL CLAIMS IN RESPECT OF SUCH ACTION OR PROCEEDING MAY BE HEARD AND DETERMINED IN ANY SUCH COURT AND IRREVOCABLY WAIVE ANY OBJECTION THEY MAY NOW OR HEREAFTER HAVE AS TO THE VENUE OF ANY SUCH SUIT, ACTION OR PROCEEDING BROUGHT IN SUCH A COURT OR THAT SUCH COURT IS AN INCONVENIENT FORUM. NOTHING HEREIN SHALL LIMIT THE RIGHT OF THE AGENT OR ANY LENDER TO BRING PROCEEDINGS AGAINST ANY GRANTOR IN THE COURTS OF ANY OTHER JURISDICTION. ANY JUDICIAL PROCEEDING BY ANY GRANTOR AGAINST THE AGENT OR ANY LENDER OR ANY AFFILIATE OF THE AGENT OR ANY LENDER INVOLVING, DIRECTLY OR INDIRECTLY, ANY MATTER IN ANY WAY ARISING OUT OF, RELATED TO, OR CONNECTED WITH THIS SECURITY AGREEMENT OR ANY OTHER LOAN DOCUMENT SHALL BE BROUGHT ONLY IN A COURT IN CLEVELAND, OHIO.

7.18. WAIVER OF JURY TRIAL. EACH GRANTOR, THE AGENT AND EACH LENDER HEREBY WAIVE TRIAL BY JURY IN ANY JUDICIAL PROCEEDING INVOLVING, DIRECTLY OR INDIRECTLY, ANY MATTER (WHETHER SOUNDING IN TORT, CONTRACT OR OTHERWISE) IN ANY WAY ARISING OUT OF, RELATED TO, OR CONNECTED WITH THIS SECURITY AGREEMENT OR ANY OTHER LOAN DOCUMENT OR THE RELATIONSHIP ESTABLISHED THEREUNDER.

7.19. Indemnity. The Grantors, jointly and severally, hereby agree to indemnify the Agent and the Lenders, and their respective successors, assigns, agents and employees, from and against any and all liabilities, damages, penalties, suits, costs, and expenses of any kind and nature (including, without limitation, all expenses of litigation or preparation therefor whether or not the Agent or any Lender is a party thereto) imposed on, incurred by or asserted against the Agent or the Lenders, or their respective successors, assigns, agents and employees, in any way relating to or arising out of this Security Agreement, or the manufacture, purchase, acceptance, rejection, ownership, delivery, lease, possession, use, operation, condition, sale, return or other disposition of any Collateral (including, without limitation, latent and other defects, whether or not discoverable by the Agent or the Lenders or the Grantors, and any claim for Patent, Trademark or Copyright infringement), except to the extent arising out of the gross negligence or willful misconduct of the Agent or the Lenders.

7.20. Counterparts. This Security Agreement may be executed in any number of counterparts, all of which taken together shall constitute one agreement, and any of the parties hereto may execute this Security Agreement by signing any such counterpart.

7.21. Section Titles. The Section titles contained in this Security Agreement are and shall be without substantive meaning or content of any kind whatsoever and are not part of the agreement between the parties hereto.

7.22. Release of Security Interest. Notwithstanding anything to the contrary set forth herein, in the event that any Grantor returns any bullion or precious metals to The Bank of Nova Scotia pursuant to the terms of any Permitted Precious Metals Agreement between a Grantor and The Bank of Nova Scotia, any and all security interests created by this Security Agreement in such bullion or precious metals shall automatically, and without any action by any Grantor, the Agent or any Lender, terminate and be released in their entirety.

ARTICLE VIII NOTICES

8.1. Sending Notices. Any notice required or permitted to be given under this Security Agreement shall be sent and deemed received in the manner and to the addresses set forth in the Credit Agreement.

8.2. Change in Address for Notices. Each of the Grantors, the Agent and the Lenders may change its address for service of notice upon written notice to the other parties.

ARTICLE IX THE AGENT

Bank One, NA has been appointed the Agent for the Lenders hereunder pursuant to Article X of the Credit Agreement. It is expressly understood and agreed by the parties to this Security Agreement that any authority conferred upon the Agent hereunder is subject to the terms of the delegation of authority made by the Lenders to the Agent pursuant to the Credit Agreement, and that the Agent has agreed to act (and any successor Agent shall act) as such hereunder only on the express conditions contained in such Article X. Any successor Agent appointed pursuant to Article X of the Credit Agreement shall be entitled to all the rights, interests and benefits of the Agent hereunder.

[Signature Page Follows]

The Grantors and the Agent have executed this Security Agreement as of the date first above written.

GRANTORS:

BRUSH ENGINEERED MATERIALS INC.
BEM SERVICES, INC.
BRUSH INTERNATIONAL, INC.
BRUSH WELLMAN, INC.
ZENTRIX TECHNOLOGIES INC.
BRUSH RESOURCES INC.
BRUSH CERAMIC PRODUCTS INC.
CIRCUITS PROCESSING TECHNOLOGY, INC.
TECHNICAL MATERIALS, INC.
WILLIAMS ADVANCED MATERIALS INC.
WILLIAMS ACQUISITION, LLC

By: [Signature]
Name: Michael C. Hasychak
Title: Authorized Officer

BANK ONE, NA,
as Agent

By: [Signature]
Name: Joseph J. Virzi
Title: Senior Vice President

STATE OF OHIO)
) SS
COUNTY OF CUYAHOGA)

The foregoing instrument was acknowledged before me this 4th day of December, 2003, by Joseph J. Virzi, Senior Vice President of Bank One, NA, on behalf of said national banking association.

S. Renee Papenfuss
Notary Public

S. RENEE PAPENFUSS
A Notary Public of the State of Ohio
My Commission Expires 8/26/07

STATE OF OHIO)
) SS
COUNTY OF CUYAHOGA)

The foregoing instrument was acknowledged before me this 4th day of December, 2003, by Michael C. Hasychak, an authorized officer of the companies, on behalf of said entities.

S. Renee Papenfuss
Notary Public

S. RENEE PAPENFUSS
A Notary Public of the State of Ohio
My Commission Expires 8/26/07

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PATENT
REEL: 014885 FRAME: 0791

**SCHEDULE
PATENTS**

TITLE	PATENT NO.
PROCESS FOR MAKING IMPROVED COPPER/TUNGSTEN COMPOSITES	5686676
PROCESS FOR RETARDING SPONTANEOUS COMBUSTION OF POWDERY MIXTURES	5826159
SEMICONDUCTOR PACKAGE HAVING A EUTECTIC BONDING LAYER	5760473
METHOD FOR BONDING A CERAMIC TO A METAL WITH A COPPER-CONTAINING SHIM	6056186
METHOD FOR CREATING A HERMETIC SEAL AND PACKAGE MADE THEREBY	6153449
FUNCTIONALLY GRADED METAL SUBSTRATES AND PROCESS FOR MAKING SAME	6114048
BERYLLIUM-CONTAINING ALLOYS OF MAGNESIUM	5413644
SEMI-SOLID PROCESSING OF BERYLLIUM- CONTAINING ALLOYS OF MAGNESIUM	5679182
MAGNESIUM-BERYLLIUM DISK DRIVE ARMSET	5475549
ALUMINUM ALLOYS CONTAINING BERYLLIUM AND INVESTMENT CASTING OF SUCH ALLOYS	6042658
COMPOSITE DISK DRIVE ARMSET	6057989
PROCESS FOR CLADDING PRECIOUS METALS TO PRECIPITATION HARDENABLE MATERIALS	5370753
BERYLLIUM-BERYLLIUM OXIDE COMPOSITES	5304426
PRODUCTION OF BERYLLIUM OXIDE POWDERS WITH CONTROLLED MORPHOLOGY AND QUALITY	5268334
METHOD OF MAKING BERYLLIUM- BERYLLIUM OXIDE COMPOSITES	5124119

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SCHEDULE
PATENTS

TITLE	PATENT NO.
BERYLLIUM-CONTAINING ALLOYS OF ALUMINUM AND SEMI-SOLID PROCESSING OF SUCH ALLOYS	5716467
ALUMINUM ALLOYS CONTAINING BERYLLIUM AND INVESTMENT CASTING OF SUCH ALLOYS	5667600
ALUMINUM ALLOYS CONTAINING BERYLLIUM AND INVESTMENT CASTING OF SUCH ALLOYS	5642773
BERYLLIUM-CONTAINING ALLOYS OF ALUMINUM AND SEMI-SOLID PROCESSING OF SUCH ALLOYS	5551997
PROCESS FOR MAKING IMPROVED NET SHAPE OR NEAR NET SHAPE METAL PARTS	5993731
BONDING BERYLLIUM TO COPPER ALLOYS USING POWDER METALLURGY COMPOSITIONAL GRADIENTS	5901336
THREADED SPACER	6371224

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SCHEDULE PATENTS

HIGH STRENGTH CAST ALUMINUM-BERYLLIUM ALLOYS CONTAINING MAGNESIUM	6312534
LEAN, HIGH CONDUCTIVITY, RELAXATION-RESISTANT BERYLLIUM-NICKEL-COPPER ALLOYS	6001196
LEAN, HIGH CONDUCTIVITY, RELAXATION-RESISTANT BERYLLIUM-NICKEL-COPPER ALLOYS	5993574
LEAN, HIGH CONDUCTIVITY, RELAXATION-RESISTANT BERYLLIUM-NICKEL-COPPER ALLOYS	6153031
METAMORPHIC PROCESSING OF ALLOYS AND PRODUCTS THEREOF	5651844
METAMORPHIC PROCESSING OF ALLOYS AND PRODUCTS THEREOF	6190468
MULTILAYER LAMINATE PRODUCT AND PROCESS	5686190
MULTILAYER LAMINATE PRODUCT AND PROCESS	5525753
MULTILAYER LAMINATE PROCESS	6022426
THERMOMECHANICAL PROCESSING OF BERYLLIUM-COPPER ALLOYS	4657601
ALUMINUM-BERYLLIUM ALLOYS HAVING HIGH STIFFNESS AND LOW THERMAL EXPANSION FOR MEMORY DEVICES	5840135
ALUMINUM-BERYLLIUM ALLOYS HAVING HIGH STIFFNESS AND LOW THERMAL EXPANSION FOR MEMORY DEVICES	5578146
MACHINABLE LEAN BERYLLIUM-NICKEL ALLOYS CONTAINING COPPER FOR GOLF CLUBS AND THE LIKE	5911948
METHOD AND APPARATUS FOR WELDING PRECIPITATION HARDENABLE MATERIALS	5324914
PROCESS FOR THERMODYNAMICALLY TREATING A REGION JOINING TWO MEMBERS AND PRODUCT THEREOF	5257733

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**SCHEDULE
PATENTS**

PROCESS FOR THERMODYNAMICALLY TREATING A REGION JOINING TWO MEMBERS	5217158
PROCESSING OF COPPER ALLOYS AND PRODUCT	4724013
PROCESSING OF COPPER ALLOYS	4599120
MULTILAYER METAL COMPOSITE FOR MICROWAVE TUBING AND THE LIKE	5783317
HEAT EXCHANGER ASSEMBLY AND METHOD FOR MAKING THE SAME	5777259
MULTILAYER METAL LEADFRAME	5525836
METHOD FOR MAKING A MULTILAYER METAL LEADFRAME	5437096
METHOD OF MAKING MULTILAYER SYSTEM	5761799

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SCHEDULE
PATENTS

ALTERNATE ELECTROLYTIC/ELECTROLESS- LAYERED LID FOR ELECTRONICS PACKAGE	4842961
NICKEL CLAD CORROSION RESISTANT LID FOR SEMICONDUCTOR PACKAGE	4737418
CARRIER SUB-ASSEMBLY WITH INSERTS AND METHOD FOR MAKING SAME	APP. NO. 09897851

{471105:1}

RECORDED: 01/23/2004

PATENT
REEL: 014885 FRAME: 0796