

01-23-2004

1/21/04

Form PTO-1595  
(Rev. 10/02)

RECORDAT

102653336

DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

## PATENTS ONLY

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

## 1. Name of conveying party(ies):

National City Bank

## 2. Name and address of receiving party(ies)

Name: Brush International, Inc.

Internal Address: \_\_\_\_\_

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

## 3. Nature of conveyance:

- ☐ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☒ Other Release of Security Interest

Street Address: 17876 St. Clair Avenue

City: Cleveland State: OH Zip: 44110

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) (See Schedule A)

B. Patent No.(s) (See Schedule A)

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: 351

7. Total fee (37 CFR 3.41).....\$ 1,400.00

- ☒ 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. #41,004)  
Name of Person Signing

Signature

Date

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

01/22/2004 MUeller 00000139 5686676

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1400.00 DP

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 014892 FRAME: 0838

Williams Advanced Materials, Inc.  
2978 Main Street  
Buffalo, NY 12414-1099

Circuits Processing Technology, Inc.  
1817 Peacock Boulevard  
Oceanside, California 92054

Technical Materials, Inc.  
11103 Foxbrook Ct.  
Louisville, KY 40223

Brush Resources, Inc.  
10 Miles North Highway 6  
Delta, Utah 84624

Brush Ceramic Products, Inc.  
6100 South Tucson Boulevard  
Tucson, Arizona 85706

Zentrix Technologies, Inc.  
6100 S. Tucson Boulevard  
Tucson, Arizona 85706-4520

{471510:}

**SCHEDULE A  
PATENTS**

<b>TITLE</b>	<b>PATENT NO.</b>	<b>ISSUE DATE</b>
PROCESS FOR MAKING IMPROVED COPPER/TUNGSTEN COMPOSITES	5686676	Nov. 11, 1997
PROCESS FOR RETARDING SPONTANEOUS COMBUSTION OF POWDERY MIXTURES	5826159	Oct. 20, 1998
SEMICONDUCTOR PACKAGE HAVING A EUTECTIC BONDING LAYER	5760473	June 2, 1998
METHOD FOR BONDING A CERAMIC TO A METAL WITH A COPPER-CONTAINING SHIM	6056186	May 2, 2000
METHOD FOR CREATING A HERMETIC SEAL AND PACKAGE MADE THEREBY	6153449	Nov. 28, 2000
FUNCTIONALLY GRADED METAL SUBSTRATES AND PROCESS FOR MAKING SAME	6114048	Sept. 5, 2000
BERYLLIUM-CONTAINING ALLOYS OF MAGNESIUM	5413644	May 9, 1995
SEMI-SOLID PROCESSING OF BERYLLIUM-CONTAINING ALLOYS OF MAGNESIUM	5679182	Oct. 21, 1997
MAGNESIUM-BERYLLIUM DISK DRIVE ARMSET	5475549	Dec. 12, 1995
ALUMINUM ALLOYS CONTAINING BERYLLIUM AND INVESTMENT CASTING OF SUCH ALLOYS	6042658	March 28, 2000
COMPOSITE DISK DRIVE ARMSET	6057989	May 2, 2000
PROCESS FOR CLADDING PRECIOUS METALS TO PRECIPITATION HARDENABLE MATERIALS	5370753	Dec. 6, 1994
BERYLLIUM-BERYLLIUM OXIDE COMPOSITES	5304426	April 19, 1994
PRODUCTION OF BERYLLIUM OXIDE POWDERS WITH CONTROLLED MORPHOLOGY AND QUALITY	5268334	Dec. 7, 1993
METHOD OF MAKING BERYLLIUM-BERYLLIUM OXIDE COMPOSITES	5124119	June 23, 1992
PROCESSING OF COPPER ALLOYS AND PRODUCT	4724013	Feb. 9, 1998
PROCESSING OF COPPER ALLOYS	4599120	July 8, 1986
HEAT EXCHANGER ASSEMBLY AND METHOD FOR MAKING THE SAME	5777259	July 7, 1998
BERYLLIUM-CONTAINING ALLOYS OF ALUMINUM AND SEMI-SOLID PROCESSING OF SUCH ALLOYS	5716467	Feb. 10, 1998

TITLE	PATENT NO.	ISSUE DATE
ALUMINUM ALLOYS CONTAINING BERYLLIUM AND INVESTMENT CASTING OF SUCH ALLOYS	5667600	Sept. 16, 1997
ALUMINUM ALLOYS CONTAINING BERYLLIUM AND INVESTMENT CASTING OF SUCH ALLOYS	5642773	July 1, 1997
BERYLLIUM-CONTAINING ALLOYS OF ALUMINUM AND SEMI-SOLID PROCESSING OF SUCH ALLOYS	5551997	Sept. 3, 1997
MULTILAYER METAL LEADFRAME	5525836	June 11, 1996
METHOD FOR MAKING A MULTILAYER METAL LEADFRAME	5437096	Aug. 1, 1995
BONDING BERYLLIUM TO COPPER ALLOYS USING POWDER METALLURGY COMPOSITIONAL GRADIENTS	5901336	May 4, 1999
METHOD OF MAKING MULTILAYER SYSTEM	5761799	June 9, 1998
ALTERNATE ELECTROLYTIC/ELECTROLESS-LAYERED LID FOR ELECTRONICS PACKAGE	4842961	June 27, 1989
MULTILAYER LAMINATE PRODUCT AND PROCESS	5686190	Nov. 11, 1997
MULTILAYER LAMINATE PRODUCT AND PROCESS	5525753	June 11, 1996
MULTILAYER LAMINATE PROCESS	6022426	Feb. 8, 2000
MULTILAYER METAL COMPOSITE FOR MICROWAVE TUBING AND THE LIKE	5783317	July 21, 1998
PROCESS FOR MAKING IMPROVED COPPER/TUNGSTEN COMPOSITES	5686676	Nov. 11, 1997
PROCESS FOR MAKING IMPROVED NET SHAPE OR NEAR NET SHAPE METAL PARTS	5993731	Nov. 30, 1999
NICKEL CLAD CORROSION RESISTANT LID FOR SEMICONDUCTOR PACKAGE	4737418	April 12, 1988
CARRIER SUB-ASSEMBLY WITH INSERTS AND METHOD FOR MAKING SAME	App. No. 09897851	

**RELEASE OF SECURITY INTEREST**

This Release is executed by National City Bank as of the date set forth below.

WHEREAS, on September 28, 2001, National City Bank, a national banking association, Brush International, Inc., an Ohio corporation ("BII"), Williams Advanced Materials Inc., a New York corporation ("WAM"), Circuits Processing Technology, Inc., a California corporation ("CPI"), Technical Materials, Inc., an Ohio corporation ("TMI"), Brush Resources Inc., a Utah corporation ("BRI"), Brush Ceramic Products Inc., an Arizona corporation ("BCP"), and Zentrix Technologies Inc., an Arizona corporation ("ZTI" and, collectively with WAM, CTP, TMI, BII, BRI and BCP "Brush") entered into a Subsidiary Security Agreement, as later amended, granting to National City Bank a security interest in, among other items, the patents and patent applications listed on Schedule A attached hereto as well as future patents and patent applications (the "Patents");

WHEREAS, on May 15, 2002, National City Bank caused the lien created in the Subsidiary Security Agreement to be recorded against the Patents in the U.S. Patent and Trademark Office on Reel 012896 at Frame 0249; and

WHEREAS, Brush has satisfied all outstanding Secured Obligations (as defined in the Subsidiary Security Agreement);

NOW THEREFORE, for and in consideration of Brush's satisfaction of all outstanding Secured Obligations, National City Bank hereby releases all liens, lien rights, security interests, claims or demands of any kind whatsoever, which National City Bank now has or might have against the Patents pursuant to the Subsidiary Security Agreement

Date: December 4, 2003



By: Dale F. Klose  
Senior Vice President

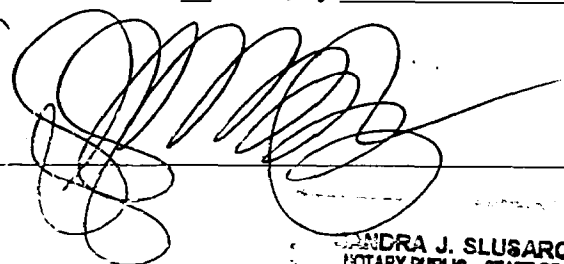
Title: \_\_\_\_\_

STATE OF Ohio

COUNTY OF Cuyahoga

This instrument was acknowledged before me on December 4<sup>th</sup>, 2003, by Dale F. Klose  
Senior Vice President of National City Bank

Notary Public



SANDRA J. SLUSARCZYK  
NOTARY PUBLIC - STATE OF OHIO  
Recorded in Cuyahoga County  
My Comm. Expires Dec 1 2004

COI-1257949v1

RECORDED: 01/21/2004

PATENT  
REEL: 014892 FRAME: 0842