

01-18-2001

U.S. Department of Commerce
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PATENT

101586558

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20503**REEL: 011429 FRAME: 0442**

Correspondent Name and Address

Area Code and Telephone Number (412) 276-1750

Name James R. Williams, Reg. No. 43,268

Address (line 1) Vesuvius

Address (line 2) 27 Noblestown Road

Address (line 3) Carnegie, PA 15106-1632

Address (line 4) USA

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

6

Application Number(s) or Patent Number(s)

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Patent Application Number(s)

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

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Number of Properties

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1

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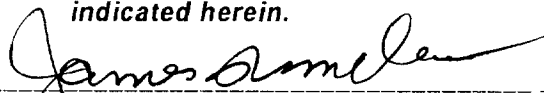
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Signature

29 Dec 2000
Date

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CONTINUATION
PATENTS ONLY

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Name (line 1) Miller, Thomas M.

Execution Date
Month Day Year

12 21 00

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

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Application Number(s) or Patent Number(s)

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Patent Application Number(s)

Patent Number(s)

INVENTION/PATENT APPLICATION ASSIGNMENT
FROM INVENTORS TO COMPANY

WHEREAS WE,

Shawn R. McGillivray a U.S. citizen residing at 2005 Carville Street, No.B, Reno, Nevada 89512;

Mark A. Shand of a U.K. citizen residing at 111 Fairmont Drive, Findlay, Ohio 45840; and

Thomas M. Miller a U.S. citizen residing at 19826 Hidden Trail Place, Walnut, California 91789, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

AMPHOTERIC MAGNESIUM BUFFERS

executed by us on the date of execution of this document, as shown below, and was filed on September 20, 2000 as US Application Serial No. 09/666,900.

AND WHEREAS, Vesuvius Crucible Company, a corporation of the State of Delaware and having an address of 103 Foulk Road, Suite 202, Wilmington, DE 19803, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries that may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto said assignee, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries that may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or

chooses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States that may be issued for said invention to said assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

12-04-00
Date
12-15-00
Date
12-21-00
Date

Se. Brinkley
Signature
Mark Shuman
Signature
W. Kell
Signature

STATE OF NEVADA)
COUNTY OF WASHOE) SS:

On this 4th day of December, 20 00, before me personally appeared SHAWN RAY MAGNINIARY, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



S. Kristi Kenney
Notary Public
My commission expires April 2000

STATE OF _____)
COUNTY OF _____) SS:

On this 15th day of (December) 2000, before me personally appeared Mark A. Shand, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

Kimala J. Bagley
Notary Public

My commission expires



KIMALA J. BAGLEY

Notary Public, State of Ohio

My Commission Expires February 22, 2004

On this 21st day of (December) 2000, before me personally appeared THOMAS MILLER, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for uses and purposes therein set forth.

S E A L

Kimala J. Bagley
Notary Public

My commission expires



KIMALA J. BAGLEY

Notary Public, State of Ohio

My Commission Expires February 22, 2004