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- Execution Date
Month Day Year
10 23 00

Name (line 1) Strawbridge, Ian

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Receiving Party

- ☐ Mark if additional names of receiving parties attached

Name (line 1) VESUVIUS CRUCIBLE COMPANY

Name (line 2) a corporation of the State of Delaware

Address (line 1) 103 Foulk Road

Address (line 2) Suite 202

Address (line 3) Wilmington

Deleware/ USA

19803

City

State/Country

Zip Code

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PATENT
REEL: 011234 FRAME: 0274

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.

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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.

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Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

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Number of Properties

Enter the total number of properties involved.

#

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:
Deposit Account

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Deposit Account

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(Enter for payment by deposit account or if additional fees can be charged to the account.)

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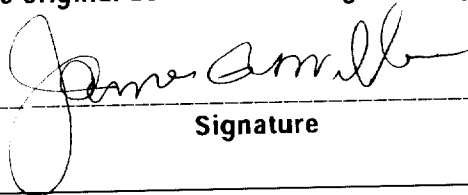
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Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

JAMES R. WILLIAMS



31 Oct 2000

Name of Person Signing

Signature

Date

**INVENTION/PATENT APPLICATION ASSIGNMENT
FROM INVENTOR TO COMPANY**

WHEREAS I, Ian Strawbridge of Sheffield, England, a British citizen residing at 164 Arnold Avenue, Gleadless, Sheffield S12 3JE, England, United Kingdom, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

REFRACTORY MATERIAL

executed by me on the date of execution of this document, as shown below, and was filed on September 1, 2000 as US Application Serial No. 09/653,976.

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, I 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, I hereby agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I 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 choses 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 I 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.

23.d October 2000
Date

Ian Strawbridge
Signature

On this 23.d day of October, 2000, before me personally appeared IAN STRAWBRIDGE, 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

[Signature]
Notary Public

My commission expires at death

