

3/18/04

71D581-40

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08 Rec'd PCT/PTO 18 MAR 2004

04-05-2005

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings



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

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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): Paul Van Der Maat Eric Hanse Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: Vesuvius Crucible Company Internal Address:

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: 08/28/2001

Street Address: 103 Foulk Road, Suite 202 City: Wilmington State: DE Zip: 19803 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: 03/18/04 A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Tony Iadicicco Internal Address: Vesuvius USA Corporation Street Address: 27 Noblestown Road City: Carnegie State: PA Zip: 15106

6. Total number of applications and patents involved: 1 Total fee (37 CFR 3.41).....\$ 40.00 Enclosed Authorized to be charged to deposit account

8. Deposit account number: 220281

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9. Signature. James R. Williams, Reg. No. 43,268 Name of Person Signing Signature Date 03/18/2004

Total number of pages including cover sheet, attachments, and documents: 2

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

PATENT REEL: 016415 FRAME: 0247

INVENTION/PATENT APPLICATION ASSIGNMENT
FROM INVENTORS TO COMPANY

WHEREAS WE,

Paul Van Der Maat, a citizen of Belgium, residing at Esperanto Straat 21, B-9000 Gand, Belgium; and

Eric Hanse, a citizen of Belgium, residing at Rue Henri Bosselin 17, F-59750 Feignies, France

have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

PYROMETER

executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

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 the 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 the assignee, its legal representatives, successors, and assigns, the entire right, title and interest in and to the 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 the invention;

UPON THE CONSIDERATIONS, We hereby agree with the 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 the assignee, execute such additional assignments and other writings and do such additional acts as the 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 the 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 We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States that may be issued for the invention to the assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to the patent and the invention covered thereby.

August 28, 2001
Date 
Paul Van Der Maat

August 28, 2001
Date 
Eric Hanse

PAUL VAN DER MAAT
Witness

ERIC HANSE
Witness