

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Johan RICHAUD	10/10/2006
Lawrence J. HEASLIP	10/10/2006
James D. DORRICOTT	10/12/2006
RECEIVING PARTY DATA	
Name:	Vesuvius Crucible Company
Street Address:	103 Foulk Road
City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19803
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11506095
CORRESPONDENCE DATA	
Fax Number:	(724)247-1049
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	724-944-3452
Email:	jrwlaw@adelphia.net
Correspondent Name:	James R. Williams
Address Line 1:	3103 Wilmington Road
Address Line 4:	New Castle, PENNSYLVANIA 16105
ATTORNEY DOCKET NUMBER:	1397 CIP (04-52A)
NAME OF SUBMITTER:	James R. Williams
Total Attachments: 1 source=Assign 0452a#page1.tif	

CH 11506095 \$40.00

ASSIGNMENT FROM INVENTOR TO COMPANY

We:

- Johan RICHAUD, an individual having an address at 6 Waterwheel Crescent, Dundas, Ontario, Canada L9H-7B6.
- Lawrence J. HEASLIP, an individual having an address at 4375 Spruce Ave., Burlington, Ontario, Canada L7L-1L7
- James D. DORRICOTT, an individual having an address at 2093 Simcoe Drive, Burlington, Ontario, Canada L7M-4E8

have made a certain new and useful invention as set forth in an application for United States Patent Application 11/506 095 filed by us on 17 August 2006, entitled:


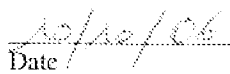

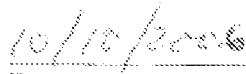
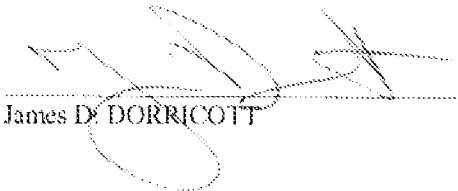
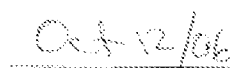
LADLE BOTTOM.

Vesuvius Crucible Company ("Vesuvius"), a Delaware corporation, having an address at 103 Foulk Road, Suite 32, Wilmington, DE 19803, USA, 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;

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign, transfer and set over unto Vesuvius, 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;

We will not execute any writing or do any act whatsoever conflicting with these presents, and we will, at any time upon request, without further or additional consideration but at the expense of Vesuvius, execute such additional assignments and other writings and do such additional acts as Vesuvius may deem necessary or desirable to perfect its 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 Vesuvius and its assigns.

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 Vesuvius, 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.

 Johan RICHAUD	 Date
 Lawrence J. HEASLIP	 Date
 James D. DORRICOTT	 Date

PATENT