

MD 281-40

09/857533

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

JC18 Rec'd PCT/PTO 06 JUN 2001
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PATENT



Reel 101850483 COVER SHEET
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Name (line 1) Boisdequin, Vincent

Name (line 2) _____

Second Party Name (line 1) _____

Name (line 2) _____

05/31/01

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09/857533

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Vesuvius Crucible Company

Name (line 2) a Delaware Corporation

Address (line 1) 103 Foulk Road, Suite 202

Address (line 2) _____

Address (line 3) Wilmington Delaware 19803

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MD 861-40

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U.S. Department of Commerce
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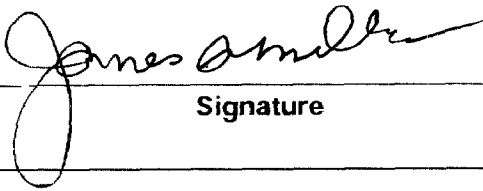
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James R. Williams  5 June 01

Name of Person Signing Signature Date

PATENT APPLICATION ASSIGNMENT
FROM INVENTORS TO VESUVIUS CRUCIBLE COMPANY

I, Vincent Boisdequin, a citizen of Belgium, residing in Belgium, at 60, rue Haute Folie, B-7062, Naast, Belgium have made a certain new and useful invention as set forth in an application for United States Letters Patent filed herewith entitled:
 POURING TUBE.

Vesuvius Crucible Company, a corporation of the State of Delaware having an office at 103 Foulk Road, Suite 32, Wilmington, Delaware 19803 ("Vesuvius") 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;

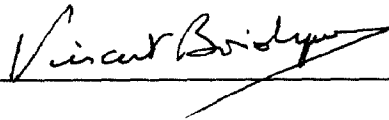
NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I do hereby sell, assign, transfer and set over unto Vesuvius, its legal representatives, successors, and assigns, the entire right, title and interest in and to the invention as set 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;

I hereby agree with Vesuvius 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 Vesuvius, execute such additional assignments and other writings and do such additional acts as Vesuvius may deem necessary or desirable to perfect Vesuvius' 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;

I 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.

31st MAY 2001

Date



Signature