

01-30-2003

Docket No. 49269/MM/M277

HEET

Box Assignment
Commissioner of Patents and Trademarks
Washington, D.C. 20231

102351600

Post Office Box 7068
Pasadena, CA 91109-7068

Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:

<p>1. Name of conveying party(ies): Stewart Middlemiss <i>01/21/03</i></p> <p>Additional name(s) of conveying party(ies) attached: NO</p>	<p>2. Name and address of receiving party(ies): Name: Smith International, Inc. Street Address: 16740 Hardy Street, Houston, Texas 77032</p> <p>Additional name(s) & address(es) attached? NO</p>		
<p>3. Name of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: January 15, 2003</p>			
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: January 15, 2003.</p> <table border="1"> <tr> <td data-bbox="100 913 747 1081">A. Patent Application No.(s)</td> <td data-bbox="747 913 1557 1081">B. Patent No.(s)</td> </tr> </table> <p>Additional numbers attached? NO</p>		A. Patent Application No.(s)	B. Patent No.(s)
A. Patent Application No.(s)	B. Patent No.(s)		
<p>5. Please return the recorded document and address all correspondence to:</p> <p>CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasadena, CA 91109-7068 Attention: Mark J. Marcelli</p>	<p>6. Total number of applications and patents involved..... 1</p> <p>7. <input checked="" type="checkbox"/> Total fee enclosed (37 CFR 3.41): \$ 40.00</p> <p>8. <input checked="" type="checkbox"/> Any deficiency or overpayment of fees should be charged or credited to Deposit Account No. 03-1728, except for payment of issue fees required under 37 CFR § 1.18. Please show our docket number with any credit or charge to our Deposit Account.</p>		
<p>10. <input type="checkbox"/> Explanatory letter is enclosed.</p>			
<p>9. 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.</p> <p>Date: January 21, 2003</p> <p>By <i>Mark J. Marcelli</i> Name: Mark J. Marcelli 626/795-9900</p> <p>Express Mail No. EL 904843205 US</p> <p>01/29/2003 ECOOPER 00000071-10349212 01/FC:0021 40.00 OP</p> <p>Total number of pages including cover sheet, attachments, and document: 3</p>			

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PATENT
REEL: 013695 FRAME: 0977

ASSIGNMENT

WHEREAS, I, STEWART MIDDLEMISS, residing at 4737 South Fairfield Circle, Salt Lake City, Utah 84124, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled **POLYCRYSTALLINE DIAMOND WITH IMPROVED ABRASION RESISTANCE**, executed by me on even date herewith.

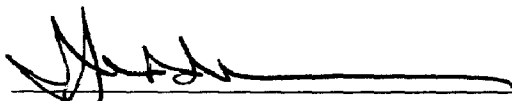
AND WHEREAS, SMITH INTERNATIONAL, INC., a Delaware Corporation, having a place of business at 16740 Hardy Street, Houston, Texas 77032 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said improvements, and said application and all divisions and continuations thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said improvements in any foreign countries; and I hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY further covenant and agree that I will communicate to ASSIGNEE any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand this 15 day of JANUARY, 2003.


Stewart Middlemiss

STATE OF)
COUNTY OF)

On January 15, 2005, before me Sharmae W. Gilgen, Notary Public, personally appeared **Stewart Middlemiss** personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Sharmae W. Gilgen
Signature of Notary

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