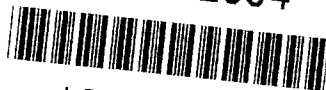


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Patent and Trademark Office

Attorney Docket No.: 83373.0006

To the Assistant Commissioner for Patents: Please record the attached documents or copy thereof.

1. Name of conveying party(ies):

David McDonald Stirling
Franklin W. Dabby
Gordon Randall Gould
Henry Willner

2. Name and address of receiving party(ies):

ASI/SILICA MACHINERY, LLC
16745 Schoeborn Street
North Hills, CA 91343

Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____ [DESCRIPTION]

Execution Date: October 5, 2004

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: October 8, 2004

A. Patent Application No.(s) [APPL'N SERIAL #(s)]

B. Patent No.(s) [PATENT #(s)]

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

David H. Ben-Meir, Esq.
HOGAN & HARTSON L.L.P.
500 South Grand Avenue, Suite 1900
Los Angeles, CA 90071

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) \$40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

50-1314

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

David H. Ben-Meir, Reg. No. 46,162

Date: October 8, 2004

OMB No. 0651-0011 (exp. 4/94)

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ASSIGNMENT OF PATENT RIGHTS FOR THE UNITED STATES

FOR VALUE RECEIVED, WE, DAVID MCDONALD STIRLING, FRANKLIN W. DABBY, GORDON RANDALL GOULD and HENRY WILLNER

hereby sell, assign, transfer and convey unto ASI/SILICA MACHINERY, LLC

a limited liability corporation of California

having a place of business at

16745 Schoenborn Street, North Hills, California 91343

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for the United States, in and to certain inventions relating to

METHOD OF MANUFACTURING LOW WATER PEAK OPTICAL WAVEGUIDE INCORPORATING A POROUS CORE MANDREL

and described in an application for Letters Patent of the United States executed by each of us, respectively, on the date indicated below and in and to said application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States to issue all Letters Patent upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for patent or other form of protection for said inventions, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in the United States for any purpose and more particularly in proof of the right of said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent protection for said inventions in the United States.

By: D. Stirling
DAVID MCDONALD STIRLING
By: Franklin W. Dabby
FRANKLIN W. DABBY
By: Gordon Randall Gould
GORDON RANDALL GOULD
By: Henry Willner
HENRY WILLNER

Date: October 5, 2004
Date: October 5, 2004
Date: October 5, 2004
Date: 10/5/04