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02-08-1999



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Attorney Docket
No.: 6351-76 U1

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

1. Name of conveying party(ies):

Richard B. Beard, Kambiz Pourrezaei, Shengke Zeng,
Frederick Prout, Frank M. Kepics, Jin Park,
Allen Rothwarf (Deceased), Siddharth Deliwala and
Robert Schmukler

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

Drexel University
32nd and Chestnut Streets
Philadelphia, Pennsylvania 19104

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: July 15, 1998; July 20, 1998; December
15, 1998; July 20, 1998; July 21, 1998; July 15, 1998;
January 11, 1999; July 17, 1998; and December 18, 1998

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:

A. Patent Application No.(s): 09/109,882

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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

Lynda L. Calderone, Esq.
PANITCH SCHWARZE JACOBS & NADEL, P.C.
One Commerce Square - 2005 Market Street - 22nd Fl.
Philadelphia, PA 19103-7086
Telephone: (215) 567-2020
Facsimile: (215) 567-2991
E-Mail: psjn@psjn.com

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

605

7. Total fee (37 CFR 3.41) Cal. 1 x \$40.00 = \$ 40.00

☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number: 16-0235

DO NOT USE THIS SPACE

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.

Lynda L. Calderone
Name of Person Signing

[Signature]
Signature

1/27/99
Date

Total number of pages including cover sheet, attachments and document: [8]

JOINT

ASSIGNMENT

WHEREAS, we, Richard B. Beard, Kambiz Pourrezaei, Shengke Zeng, Fredrick Prout, Frank M. Kepics, Jin Park, Allen Rothwarf, Siddharth Deliwala and Robert Schmukler, respectively citizens of the United States of America, United States of America, Peoples Republic of China, United States of America, United States of America, Republic of Korea, United States of America, India and United States of America, with respective post office addresses of 880 Willow Way, Atco, New Jersey 08004; 504 Ironwood Way, Dresher, Pennsylvania 19025; 6101 Chestnut Hill, Morgantown, West Virginia 26505; 937 Wesley Avenue, Huntingdon Valley, Pennsylvania 19006-8728; 113 E. Mount Kirk Avenue, Eagleville, Pennsylvania 19403; 1 Lindenwood Drive, Exton, Pennsylvania 19341; 1206 Tyson Avenue, Philadelphia, Pennsylvania 19111; 1 Makeheld Road, #G309, Morrisville, Pennsylvania 19067; and 13905 Vista Drive, Rockville, Maryland 20853-2612, hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful

DETECTION OF DEFECTS IN PROTECTIVE BARRIERS

for which we have executed a United States patent application, Application No. 09/109,882, filed **July 2, 1998**, and

ASSIGNORS authorize ASSIGNEE or ASSIGNEE's representative to insert the Application Number and Filing date of this application if they are unknown at the time of execution of this Assignment.

WHEREAS, Drexel University, having a place of business at 32nd and Chestnut Streets, Philadelphia, PA 19104, hereinafter generally referred to as "ASSIGNEE", is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned ASSIGNORS, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-

provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNORS had this assignment and sale not been made; and for the aforesaid consideration ASSIGNORS hereby covenant, agree and undertake to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNORS.

7/15/98

(Date)

7/20/98

(Date)

12/15/98

(Date)

7/20/98

(Date)

7/21/98

(Date)

7/15/98

(Date)

1/11/99

(Date)

7/17/98

(Date)

12/18/98

Richard B. Beard

(Seal)

Richard B. Beard

Kambiz Pourrezaei

(Seal)

Kambiz Pourrezaei

Shengke Zeng

Shengke Zeng

Fredrick Prout

Fredrick Prout

Frank M. Kepics

(Seal)

Frank M. Kepics

Jin Park

(Seal)

Jin Park

Bernice C. Rothwarf spouse

(Seal)

Allen Rothwarf - deceased

Siddharth Deliwala

(Seal)

Siddharth Deliwala

Robert Schmukler

(Seal)

Robert Schmukler



OFFICIAL SEAL
Notary Public, State of West Virginia
J. JACQUEZ
Not. Publ./Occupational Safety & Health
914 CRESWELL RIDGE ROAD
MORGANTOWN, WV 26505
My Commission Expires December 30, 2002

(Date)

Robert Schmukler

STATE OF Pennsylvania :

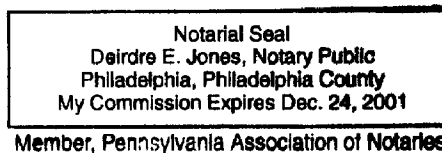
COUNTY OF Philadelphia :

ss. 026-18-3131

Before me, a notary public in and for the State and County aforesaid, on this 21 day of July, 1998, personally appeared **Richard B. Beard**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Deirdre E. Jones
Notary Public

My Commission Expires:



STATE OF Pennsylvania :

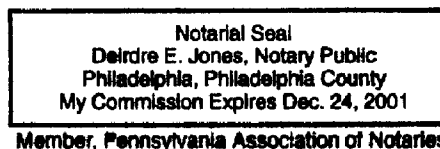
COUNTY OF Philadelphia :

ss. 029-52-0963

Before me, a notary public in and for the State and County aforesaid, on this 21 day of July, 1998, personally appeared **Kambiz Pourrezaei**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

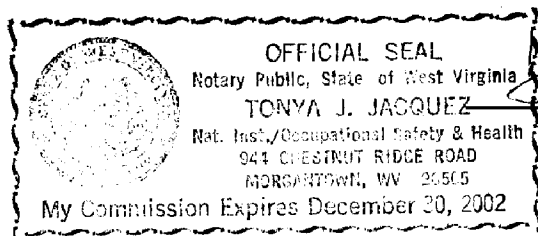
Deirdre E. Jones
Notary Public

My Commission Expires:



STATE OF West Virginia :
 : SS.
COUNTY OF Monongalia :

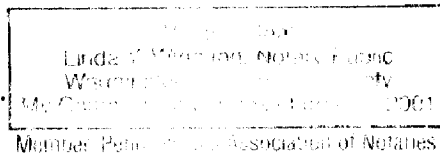
Before me, a notary public in and for the State and County aforesaid, on this 15 day of December, 1998, personally appeared **Shengke Zeng**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.



Tonya J. Jacquez
Notary Public

My Commission Expires: 12/30/2002

STATE OF Pennsylvania :
 : SS.
COUNTY OF Bucks :



Before me, a notary public in and for the State and County aforesaid, on this 25th day of Jan 1999, 1998, personally appeared **Fredrick Prout**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

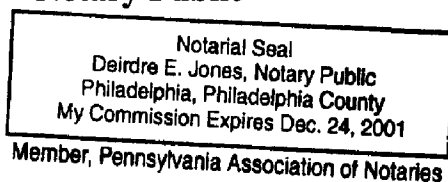
Linda Y. Wiegand
Notary Public

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS.

Before me, a notary public in and for the State and County aforesaid, on this 21st day of July, 1998, personally appeared **Frank M. Kepics**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Deirdre E. Jones

Notary Public

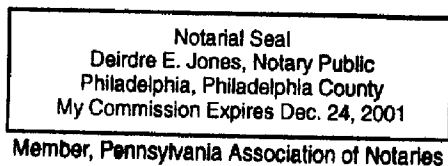


STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS.

Before me, a notary public in and for the State and County aforesaid, on this 21st day of July, 1998, personally appeared **Jin Park**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Deirdre E. Jones

Notary Public

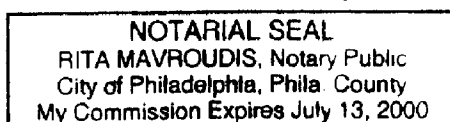


STATE OF PENNSYLVANIA :
COUNTY OF Philadelphia : SS.

Before me, a notary public in and for the State and County aforesaid, on this 11th day of JANUARY, 1998, personally appeared Allen Rothwarf, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Rita Mavroudis

Notary Public



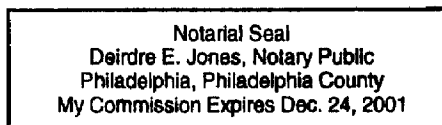
→ NOTARIZING
BERNICE ROTHWART'S
SIGNATURE ONLY

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS.

Before me, a notary public in and for the State and County aforesaid, on this 21st day of July, 1998, personally appeared Siddharth Deliwala, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Deirdre E. Jones

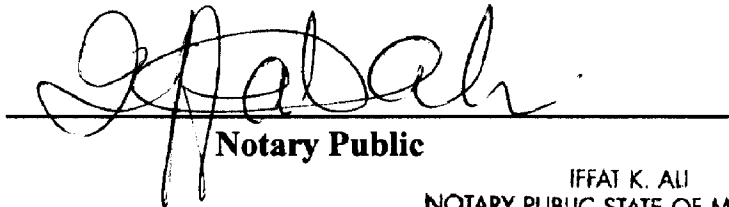
Notary Public



Member, Pennsylvania Association of Notaries

STATE OF Maryland :
COUNTY OF Montgomery : SS.

Before me, a notary public in and for the State and County aforesaid, on this 18 day of December, 1998, personally appeared **Robert Schmukler**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.


Notary Public

IFFAT K. ALI
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires October 10, 2000