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05-03-1999

**PATENT RECORDS
COVER SHEET**



Attorney Docket No.
U11.12-0128

101025118

To the Honorable Commissioner of Patents and Trademarks, please record the attached original document or copy thereof.

1. Name of conveying party(ies):
(1) R. Roger Ruan
(2) Paul L. Chen
(3) Anrong Ning
(4) Shaobo Deng
(5) Hongbin Ma
(6) Chuanshuang Bie

2. Name and address of receiving party(ies):
Name: Regents of The University of Minnesota

Internal Address: _____

Street Address: 100 Church Street S.E.

City Minneapolis State MN ZIP 55455

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of Conveyance:

[X] Assignment [] Merger
[] Security Agreement
[] Change of Name [] Other _____

Execution Date: (1) April 16, 1999
(2) April 16, 1999
(3) April 6, 1999
(4) April 16, 1999
(5) April 16, 1999
(6) April 16, 1999

4A. Application No.(s)

09/257,545

If this document is being filed together with a new application, the execution date(s) of the application is:

Additional numbers attached? [] Yes [X] No

4B. Patent No.(s)

Additional numbers attached?
[] Yes [X] No

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

Name: David D. Brush
Street Address: Westman, Champlin & Kelly, P.A
Suite 1600
International Centre
900 Second Avenue South
City: Minneapolis State: MN ZIP 55402

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

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

8. Method of Payment

[X] Enclosed
[X] The Commissioner is authorized to charge payment of any additional recording fees or credit any overpayment to deposit account No. 23-1123.

04/30/1999 DNGUYEN 00000138 09257545

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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.

David D. Brush
Name of Person Signing

D. D. Brush
Signature

April 27 1999
Date

Total number of pages submitted: [9]

ASSIGNMENT

Attorney Docket No.

U11.12-0128

WHEREAS, I, R. Roger Ruan, of Arden Hills, Minnesota, Paul L. Chen of Roseville, Minnesota, Anrong Ning of Peoples Republic of China, Richard L. Bogaard of Park Rapids, Minnesota, Donald G. Robinson of Casselton, North Dakota, Shaobo Deng of St. Paul, Minnesota, Hongbin Ma of St. Paul, Minnesota, and Chuanshuang Bie of St. Paul Minnesota, have invented certain new and useful improvements as described in an application entitled DIELECTRIC BARRIER DISCHARGE SYSTEM AND METHOD FOR DECOMPOSING HAZARDOUS COMPOUNDS IN FLUIDS for Letters Patent of the United States, the application having been executed on even date herewith, and/or being identifiable in the United States Patent and Trademark Office by Serial No. 09/257,545, filed February 24, 1999; and

WHEREAS, Regents of The University of Minnesota, a corporation organized and existing under the laws of the State of Minnesota, and having offices at, 100 Church Street Southeast, Minneapolis, Minnesota 55455 ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, the above-identified application, corresponding domestic and foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and I authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date and serial number of the application when ascertained.

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

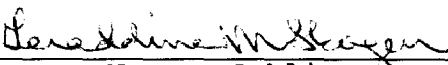
I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.



 R. Roger Ruan

STATE OF MINNESOTA)
)
 COUNTY OF Ramsey) ss.

Subscribed and sworn to before me, a Notary Public, this 16 day of April, 1999.



 Notary Public



(SEAL)

Paul L. Chen

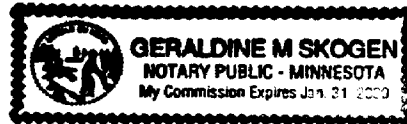
Paul L. Chen

STATE OF MINNESOTA)
)
COUNTY OF Ramsey) ss.

Subscribed and sworn to before me, a Notary Public, this 16 day of April, 1999.

(SEAL)

Geraldine M Skogen
Notary Public



Anrong Ning

Date: _____

Witness: _____

Witness: _____

Richard L. Bogaard

STATE OF MINNESOTA)
)
COUNTY OF _____) ss.

Subscribed and sworn to before me, a Notary Public, this ____ day of _____, 1999.

(SEAL)

Notary Public

STATE OF MINNESOTA)
) ss.
COUNTY OF _____)

Subscribed and sworn to before me, a Notary Public, this _____ day of _____, 1999.

Notary Public

(SEAL)

Shaobo Deng

Shaobo Deng

STATE OF MINNESOTA)
) ss.
COUNTY OF Ramsey)

Subscribed and sworn to before me, a Notary Public, this 16 day of April, 1999.

Geraldine M Skogen

Notary Public



(SEAL)

Ma Hongbin

Hongbin Ma

STATE OF MINNESOTA)
) ss.
COUNTY OF Ramsey)

Subscribed and sworn to before me, a Notary Public, this 16 day of April, 1999.

Geraldine M Skogen

Notary Public



(SEAL)

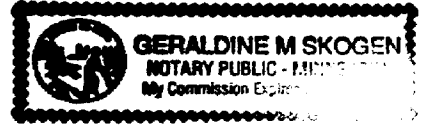
Chuanshuang Bie

Chuanshuang Bie

STATE OF MINNESOTA)
)
COUNTY OF Ramsey) ss.

Subscribed and sworn to before me, a Notary Public, this 16 day of April, 1999.

Geraldine M Skogen
Notary Public



(SEAL)

ASSIGNMENT

Attorney Docket No.

U11.12-0128

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WHEREAS, Regents of The University of Minnesota, a corporation organized and existing under the laws of the State of Minnesota, and having offices at, 100 Church Street Southeast, Minneapolis, Minnesota 55455 ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, the above-identified application, corresponding domestic and foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and I authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date and serial number of the application when ascertained.

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

R. Roger Ruan

STATE OF MINNESOTA)
) ss.
COUNTY OF _____)

Subscribed and sworn to before me, a Notary Public, this ____ day of _____, 1999.

Notary Public

(SEAL)

PATENT
REEL: 9916 FRAME: 0952

Paul L. Chen

STATE OF MINNESOTA)
) ss.
COUNTY OF _____)

Subscribed and sworn to before me, a Notary Public, this ____ day of _____, 1999.

Notary Public

(SEAL)

Anrong Ning
Anrong Ning

Date: Apr. 6, 1999

Witness: Cao Ren Ling

Witness: Zhang Yaomin

Richard L. Bogaard

STATE OF MINNESOTA)
) ss.
COUNTY OF _____)

Subscribed and sworn to before me, a Notary Public, this ____ day of _____, 1999.

Notary Public

(SEAL)

Donald G. Robinson

STATE OF MINNESOTA)
) ss.
COUNTY OF _____)

Subscribed and sworn to before me, a Notary Public, this ____ day of _____, 1999.

Notary Public

(SEAL)

Shaobo Deng

STATE OF MINNESOTA)
) ss.
COUNTY OF _____)

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Notary Public

(SEAL)

Hongbin Ma

STATE OF MINNESOTA)
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Chuanshuang Bie

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Notary Public

(SEAL)