

09-16-2009



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09/15/09

To the Director of the United States Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Jes Asmussen, Timothy Grotjohn, Donnie K. Reinhard,
Kadek W. Hemawan, Yajun Gu and Jing Lu

Additional names(s) of conveying party(ies) Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): Asmussen 06/16/09; Grotjohn 06/16/09;
Reinhard 08/24/09; Hemawan 06/19/09;

- Assignment Gu 06/19/09; and Lu 06/19/09
- Security Agreement
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

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

Name: Board of Trustees of Michigan State University

Address: 238 Administration Building

City: East Lansing

State/Prov.: Michigan

Country: USA ZIP: 48824

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

4. Application or patent numbers(s):

A. Patent Application No. (s)

12/456,388

June 16, 2009

This document is being filed together with a new application.

B. Patent No.(s)

SEP 15

Additional numbers attached? Yes No

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

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

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Signature

Ian C. McLeod

Name of Person Signing

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ASSIGNMENT

WHEREAS, we, JES ASMUSSEN, TIMOTHY GROTJOHN, DONNIE K. REINHARD, KADEK W. HEMAWAN, YAJUN GU and JING LU residing at 6477 Highland Ridge Drive, East Lansing, Michigan 48823; 2311 Shawnee Trail, Okemos, Michigan 48864; 526 Marshall Street, East Lansing, Michigan 48823; 420 Whitehills Drive, East Lansing, Michigan 48823; 2110 Devonshire Ave., Lansing, Michigan 48910; and 1550 Spartan Village, Apt. J, East Lansing, Michigan 48823, respectively have invented jointly with THOMAS SCHUELKE, M. KAGAN YARAN, MICHAEL BECKER and DAVID KING new and useful improvements in IMPROVED MICROWAVE PLASMA REACTORS for which a United States Letters Patent was filed on June 16, 2009 and assigned Serial No. 12/456,388; and

WHEREAS, Board of Trustees, a constitutional Corporation of MICHIGAN STATE UNIVERSITY, (hereinafter referred to as Assignee) of East Lansing, State of Michigan is desirous of acquiring the undivided right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries as well as the right to priority.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, the receipt whereof is hereby acknowledged, and other valuable considerations, we the said JES ASMUSSEN, TIMOTHY GROTJOHN, DONNIE K. REINHARD, and KADEK W. HEMAWAN, YAJUN GU and JING LU have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee our undivided interest to the said invention in the United States and its territorial possessions and in all foreign countries and our undivided right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof.

PATENT

REEL: 023239 FRAME: 0548

We hereby authorize and request the Patent and Trademark Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said Assignee as the Assignee of our undivided right, title and interest in and to the same for the sole use and behoof of the said Assignee, its successors and assigns.

FURTHER, we agree that we will communicate to said Assignee or its representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said Assignee, make all rightful oaths and generally do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

