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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
**Jes Asmussen
Timothy Grotjohn
Shengxi Zuo
Kadek Hemawan**

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

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

Name: **Board of Trustees of Michigan State University**

Internal Address: _____

Street Address: **Michigan State University
238 Administration Building**

City: **East Lansing** State: **MI** ZIP: **48824**

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Asmussen 4/06/2005, Grotjohn 4/06/2005
Execution Date: ~~Zuo 4/11/2005 Hemawan 5/27/05~~

4. Application number(s) or patent numbers(s):

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

A. Patent Application No.(s)
11/100,253

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: **Ian C. McLeod**

Internal Address: **McLeod & Moyne, P.C.**

Street Address: **2190 Commons Parkway**

City: **Okemos** State: **MI** ZIP: **48864**

6. Total number of applications and patents involved: **1**

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

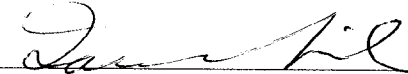
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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ian C. McLeod  **6/01/2005**

06/07/2005 00000071110253
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Total number of pages including cover sheet, attachments, and document: **5**

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PATENT
REEL: 016653 FRAME: 0984

ASSIGNMENT

WHEREAS, we, JES ASMUSSEN, TIMOTHY GROTJOHN, SHENGXI ZUO and KADEK HEMAWAN, residing at 6477 Highland Ridge, East Lansing, Michigan 48823; 2311 Shawnee Trail, Okemos, Michigan 48864; 1642 Spartan Village, Apt. J, East Lansing, Michigan 48823 and 420 Whitehills Drive, East Lansing, Michigan 48823 have invented certain new and useful improvements in MINIATURE MICROWAVE PLASMA TORCH APPLICATION AND METHOD OF USE THEREOF for which a United States Letters Patent was filed on April 6, 2005 and assigned Serial No. 11/100,253; 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 entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted 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, SHENGXI ZUO and KADEK HEMAWAN, have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted 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.

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 entire 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.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 6 day of April, 2005.

Signed in the Presence of:

[Signature]

[Signature]
Jes Asmussen

STATE OF MICHIGAN :
COUNTY OF INGHAM : ss.

On this 6th day of April, 2005, personally appeared before me the above named Jes Asmussen to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.

SEAL

Tammi L. Taylor
Notary Public, Ingham County, MI
My Commission Expires: Oct. 27, 2008

IN TESTIMONY WHEREOF, I have hereunto set my hand this 6 day of April, 2005.

Signed in the Presence of:

[Signature]

[Signature]
Timothy Grotjohn

STATE OF MICHIGAN :
COUNTY OF INGHAM : ss.

On this 6th day of April, 2005, personally appeared before me the above named Timothy Grotjohn to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.

SEAL

Tammi L. Taylor
Notary Public, Ingham County, MI
My Commission Expires: Oct. 27, 2008

IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of April, 2005.

Signed in the Presence of:

[Signature]
Shengxi Zuo

STATE OF MICHIGAN :
COUNTY OF INGHAM : ss.

On this 11 day of April, 2005, personally appeared before me the above named Shengxi Zuo to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.

SEAL

[Signature]
Notary Public
My Commission Expires: March 15, 2008
**NOTARY PUBLIC INGHAM CO, MI
MY COMMISSION EXPIRES Mar 15, 2008**

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27 day of ^{May}~~April~~, 2005.

Signed in the Presence of:

[Signature]
[Signature]
Kadek Hemawan

STATE OF MICHIGAN :
COUNTY OF INGHAM : ss.

On this 27 day of ^{May}~~April~~, 2005, personally appeared before me the above named Kadek Hemawan to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.

SEAL

[Signature]
Notary Public
My Commission Expires: 12-17-11
**NOTARY PUBLIC, STATE OF MI
COUNTY OF INGHAM
COMMISSION EXPIRES Dec 17, 2011
INGHAM**