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SS-676-08

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To the Honorable Commissioner of Patents

101003595

Please record the attached original documents or copy them

U.S. PATENT  
09/27/99  
03/18/99

1. Name of conveying party(ies):  
Niles K. MacDonald, Terry L. White  
and James W. Caughran

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

2. Name and address of receiving party(ies)

Name: GASONICS INTERNATIONAL

Internal Address: 2730 Junction Avenue

San Jose, California 95134

Street Address: Same as above

City: State: ZIP:

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: Feb. 2, 1999 and  
Feb. 3, 1999

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

Feb. 16, 1999 &

Feb. 22, 1999

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

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: THOMAS E. SCHATZEL

LAW OFFICES OF THOMAS E. SCHATZEL, P.C.

Internal Address: \_\_\_\_\_

16400 Lark Avenue, Suite 240

Los Gatos, California 95032

Street Address: Same as above

City: State: ZIP:

6. Total number of applications and patents involved:

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

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

19-0310

(Attach duplicate copy of this page if paying by deposit account)

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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.

THOMAS E. SCHATZEL

Name of Person Signing

Signature

March 18, 1999

Date

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

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

PATENT

REEL: 9849 FRAME: 0121

**ASSIGNMENT**

WE,  
NILES K. MacDONALD, a citizen of the United States,  
TERRY L. WHITE, a citizen of the United States, and  
JAMES W. CAUGHRAN, a citizen of the United States,

for One Dollar (\$1.00) in hand paid to us, receipt of which is hereby acknowledged, and other good and valuable consideration, have assigned and do hereby assign to, GASONICS INTERNATIONAL, a California corporation, of 2730 Junction Avenue, San Jose, California 95134 (hereinafter referred to as Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed in the application for Letters Patent of the United States entitled:

**RESONANT IMPEDANCE-MATCHING SLOW-WAVE RING STRUCTURE  
MICROWAVE APPLICATOR FOR PLASMAS**

signed by us on this date; and in all divisions, reissues, continuations and extensions thereof; and in and to all Letters Patent and all Convention and Treaty Rights of all kinds, in all countries throughout the world, for all such subject matter.

We hereby authorize and request that the Patent 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 enjoyment of 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 proceedings, sign all lawful papers, execute all divisions, continuations, substitution, renewal and reissue applications, execute all necessary Assignment papers to cause any and all of said Letters Patent to be issued, make all rightful oaths and generally do everything necessary or desirable 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.

Continued --

In Testimony Whereof, we have hereunto set our hands this \_\_\_\_\_ day of 2/3, 1998 <sup>99</sup>

Niles MacDonald  
NILES K. MacDONALD

204 Tait Avenue  
Los Gatos, California 95030

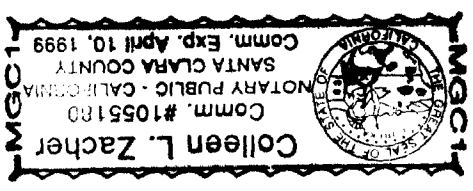
James W. Caughran  
JAMES W. CAUGHRAN

17071 Brandt Road  
Lodi, California 95240

STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF SANTA CLARA )

On FEBRUARY 3 1999 before me, COLLEEN L. ZACHER, NOTARY PUBLIC personally appeared NILES K. MacDONALD and JAMES W. CAUGHRAN, personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.  
Signature Colleen L. Zacher



In Testimony Whereof, I have hereunto set my hand this 2<sup>nd</sup> day of February, 1998 <sup>99</sup>

Terry L. White  
TERRY L. WHITE

2043 Wayside Road  
109 Belle Creek Drive  
Oak Ridge, Tennessee 37830  
Knoxville, Tennessee 37931

STATE OF TENNESSEE )  
 ) ss.  
COUNTY OF Anderson

On February 2, 1999 before me, a notary, personally appeared TERRY L. WHITE, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the persons, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.  
Signature Judy Caldwell

My commission expires July 30, 2001