

07-02-2002



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Form PTO-1595 (Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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REGISTRATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

Ball Corporation

6-26-02

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

2. Name and address of receiving party(ies)

Name: Efratom Time and Frequency Standards, Inc.

Internal Address:

3. Nature of conveyance:

- Assignment, Merger, Security Agreement, Change of Name, Other

Street Address: 3 Parker

City: Irvine State: CA Zip: 92718

Execution Date: June 5, 2002

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

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)

B. Patent No.(s) 4,661,782 5,457,430 5,146,185 5,489,821 5,256,995 5,517,157

Additional numbers attached? Yes No

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

Name: David H. Badger, Esq.

Internal Address:

Street Address: Brinks Hofer Gilson & Lione

One Indiana Square, Suite 2425

City: Indianapolis State: IN Zip: 46204

6. Total number of applications and patents involved: 6

7. Total fee (37 CFR 3.41).....\$ 240.00

Enclosed

Authorized to be charged to deposit account for any deficiencies in fees or credit any overpayment

8. Deposit account number:

23-1925

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

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.

David H. Badger

Name of Person Signing

Signature

6-20-02 Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

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PATENT REEL: 013029 FRAME: 0709

ASSIGNMENT

WHEREAS, BALL CORPORATION, a corporation organized and existing under the laws of the State of Indiana, having a place of business at 10 Longs Peak Drive, Broomfield, Colorado, 80021-2510, hereinafter called the "Assignor," has been owner of record, of the entire right, title and interest in and to the inventions, and patents identified on Exhibit A, and all patents which may be obtained from said inventions;

WHEREAS, EFRATOM TIME AND FREQUENCY STANDARDS, INC., a corporation organized and existing under the laws of the State of Colorado, having a place of business at 3 Parker, Irvine, California, 92718, hereinafter called the "Assignee," has received all right, title and interest in the inventions and U.S. patents identified in Exhibit A and all patents which may be obtained from said inventions, and wishes to record its current ownership;

NOW, THEREFORE, in consideration of valuable and legally sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the inventions and U.S. patents identified in Exhibit A, and any patents that may issue from said inventions in the United States; together with the entire right, title and interest in and to said inventions and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such applications all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents identified above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Commissioner for Patents is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, THE Assignor has executed this Agreement.

BALL CORPORATION

DATED:

June 5, 2002

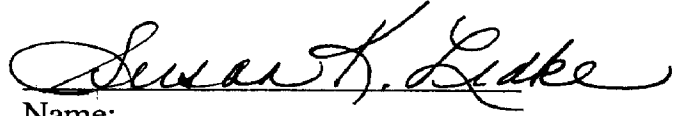
Donald C. Lewis

Name: Donald C. Lewis
Title: Vice President

STATE OF COLORADO)
)ss.
COUNTY OF BROOMFIELD)

Subscribed and sworn to before me, a Notary Public, this 5 day of

June, 2002.



Name: Susan K. Lidke
Notary Public State of Colorado
My County of Residence: Jefferson

(SEAL)

My Commission Expires: October 17, 2002

EXHIBIT A

<u>U.S. Pat. No.</u>	<u>Issued</u>	<u>Title</u>
4,661,782	April 28, 1987	INTEGRATED MICROWAVE CAVITY RESONATOR AND MAGNETIC SHIELD FOR AN ATOMIC FREQUENCY STANDARD
5,146,185	September 8, 1992	COMPACT OPTICALLY PUMPED RESONANCE SYSTEM AND APPARATUS
5,256,995	October 26, 1993	LOW HELIUM PERMEABILITY ATOMIC FREQUENCY STANDARD CELL AND METHOD FOR FORMING SAME
5,457,430	October 10, 1995	METHOD AND APPARATUS FOR REDUCTION OF LIGHT INTENSITY DECAY IN OPTICAL PUMPING DEVICES
5,489,821	February 6, 1996	LAMP OSCILLATOR FOR ATOMIC FREQUENCY STANDARDS
5,517,157	May 14, 1996	EVANESCENT-FIELD INTERROGATOR FOR ATOMIC FREQUENCY STANDARDS