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RECORDATION FORM COVER SHEET

PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
HDP Docket No. 3197-000028/CPA
Express Mail Label No.

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

1. Name of conveying party(ies):

Igor Elkin
Ilya Bystryak
Jack Schuss
Tung M. Huynh
Vadim Lubomirsky

2. Name and address of receiving party(ies)

Name: MKS Instruments, Inc.

Internal Address: _____

Street Address: 6 Shattuck Road

City: Andover State: MA Zip: 01810

Additional Name(s) & address(es) attached? ☐ Yes ☒ No

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: February 24, February 26, and February 27, 2004

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)

10/606,206

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Joseph M. Lafata

Internal Address: Harness, Dickey & Pierce, P.L.C.

Street Address: P.O. Box 828

City: Bloomfield Hills State: MI Zip: 48303

6. Total number of applications and patents involved: 1

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

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. The Commissioner is hereby authorized to charge any additional fees that may be required or credit any overpayments to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.

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.

Joseph M. Lafata

Name of Person Signing

Signature

Date

March 2, 2004

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

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

Director of the United States Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

PATENT

REEL: 014390 FRAME: 0740

700069525

CH \$40.00 080750 10606206

ASSIGNMENT

Atty. Docket No. 3197-000028/CPA

The undersigned, hereinafter referred to collectively as Assignor, has an interest in the invention entitled:

IMPROVED POWER HOLDUP CIRCUIT

which is the subject of a United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on _____, _____, _____;
- (c) ☒ filed on June 25, 2003, and assigned Serial No. 10/606,206 or PCT International Application No. _____;
- (d) ☐ U.S. Patent No. _____, issued _____, and
☐ presently assigned as evidenced at Reel _____, Frame _____; or
- (e) ☐ entitled above and naming the undersigned inventors in this provisional patent application; and

MKS Instruments, Inc., a corporation of the State of Massachusetts, 6 Shattuck Road, Andover, MA 01810, hereinafter referred to as Assignee, is desirous of acquiring Assignor's interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignor hereby authorizes an attorney authorized to prosecute this patent application to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

ASSIGNMENT

First Inventor or Assignor

State of Massachusetts)
County of Middlesex) ss.

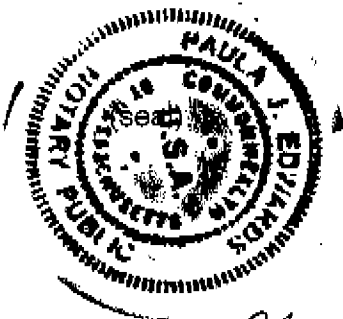
On this 26th day of February, 2004, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Paula J. Edwards
Notary Public,

Middlesex County, State of Massachusetts

My Commission Expires: July 24, 2009

Paula J. Edwards
Notary Public
My Commission Expires
July 24, 2009



Second Joint Inventor or Assignor

State of Massachusetts)
County of Middlesex) ss.

On this 26th day of February, 2004, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Paula J. Edwards
Notary Public,

Middlesex County, State of Massachusetts

My Commission Expires: July 24, 2009

Paula J. Edwards
Notary Public
My Commission Expires
July 24, 2009



ASSIGNMENT

Jack Schuss
Third Joint Inventor or Assignor

State of Massachusetts)
County of Middlesex) ss.

On this 26th day of February, 2004, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.



Paula J. Edwards
Notary Public,

____ County, State of ____

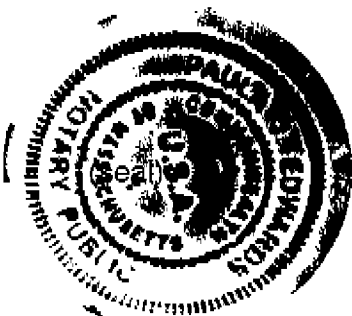
My Commission Expires: July 24, 2009

Paula J. Edwards
Notary Public
My Commission Expires
July 24, 2009

Tom Hynes
Fourth Joint Inventor or Assignor

State of Massachusetts)
County of Middlesex) ss.

On this 27th day of February, 2004, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.



Paula J. Edwards
Notary Public,

Middlesex County, State of Massachusetts

My Commission Expires: _____

Paula J. Edwards
Notary Public
My Commission Expires
July 24, 2009

ASSIGNMENT

[Signature]
Fifth Joint Inventor or Assignor

State of NEW YORK)
County of MONROE) ss.

On this 24 day of FEBRUARY, 2004 before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Sally Traynor (Hornath)
Notary Public,

_____ County, State of _____

My Commission Expires: _____



SALLY TRAYNOR
NOTARY PUBLIC, STATE OF NEW YORK
No. 01TR6076700
QUALIFIED IN MONROE COUNTY
MY COMMISSION EXPIRES JULY 1, 2006