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08-18-2005

Client/Matter No. 10322-83

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To the Director of the U.S. Patent and Trademark Office: Please record the address(es) of the party(ies) or the new address(es) below:

1. Name of conveying Party(ies)/Execution Date:

ROBERT S. BALOG, JR.
PHILIP T. KREIN

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and Address of receiving Party(ies):

Name: THE BOARD OF TRUSTEES OF
THE UNIVERSITY OF ILLINOIS

Internal Address:

Street Address: 506 S. Wright Street

City: Urbana

State: IL

Country: USA Zip: 61801

Additional name(s) and addresses attached? ☐ Yes ☒ No113010 U.S. PTO
11/202597

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3. Nature of Conveyance:

Execution Date(s): August 10, 2005; August 11, 2005

☒ Assignment☐ Change of Name☐ Executive Order 9424, Confirmatory License☐ Security Agreement☐ Merger☐ Joint Research Agreement☐ Government Interest Assignment ☐ Other

4. Application or patent number(s).

☒ This document is being filed together with a new application.

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:

BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610
(312) 321-4200
(312) 321-4299 Fax

6. Total number of applications and patents involved: 1

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

\$ 40

☐ Authorized to be charged by credit card.☒ Authorized to be charged to Deposit Account No. 23-1925.☐ Enclosed☐ None required (government interest not affecting title)

8. Payment Information:

a. ☐ Credit Card: Last 4 Numbers
Expiration Dateb. ☐ Charge fee and/or any Deficiencies to Deposit
Account Number: 23-1925
Authorized User Name: Brinks Hofer Gilson & Lione

9. Signature:

Signature

Kader Gacem, Reg. No. 52,474

Name of Person Signing

August 11, 2005
DateTotal number of pages including cover
sheet, attachments, and documents: 4Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450PATENT
REEL: 016892 FRAME: 055006/17/2005 6TON11 00000024 231925 11202597
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ASSIGNMENT

WHEREAS, **Robert S. Balog, Jr. and Philip T. Krein** hereinafter called the "Assignors," have made the invention described in the United States patent application entitled **COMMUTATION TECHNIQUE FOR AN AC-TO-AC CONVERTER BASED ON STATE MACHINE CONTROL**, executed by Assignors on the same date as this Assignment;

WHEREAS, **The Board of Trustees of the University of Illinois**, a body corporate and politic of the State of Illinois, having a place of business at 506 South Wright Street, Urbana, Illinois 61801, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application 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 defined 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 Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution

of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

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

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED: 8/10/2005

Robert S. Balog, Jr.
Robert S. Balog, Jr.

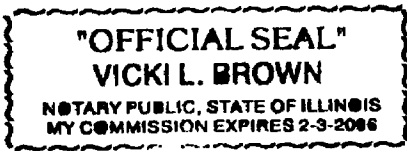
DATED: 8/11/2005

Philip T. Krein
Philip T. Krein

STATE OF *Illinois*)
) ss.
 COUNTY OF *Champaign*)

I, VLB, a Notary Public in and for the County and State aforesaid, do hereby certify that , personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this day of *11th*, 20*05*.



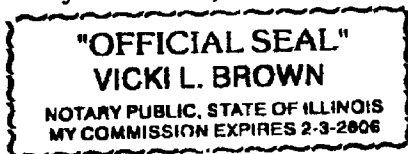
Vicki L. Brown
 Notary Public

My Commission Expires: *2-3-2006*

STATE OF *Illinois*)
) ss.
 COUNTY OF *Champaign*)

I, VLB, a Notary Public in and for the County and State aforesaid, do hereby certify that , personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this day of *11th*, 20*05*.



Vicki L. Brown
 Notary Public

My Commission Expires: *2-3-2006*