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

**1. Name of conveying party(ies)/Execution Date(s):**

Michael Joens

Execution Date(s) May 19, 2004

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

**3. Nature of conveyance:**

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: Millipore Corporation

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

Street Address: 290 Concord Road

City: Billerica

State: MA

Country: US Zip: 01821

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

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

A. Patent Application No.(s)

10/838,597

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

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Nields & Lemack

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

Street Address: 176 E. Main Street  
Suite 7

City: Westboro

State: Massachusetts Zip: 01581

Phone Number: (508, 898-1818)

Fax Number: (508, 898-2020)

Email Address: NLDlaw@aol.com

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

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 14-0930

Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

JULY 22, 2004

Date

Kevin S. Lemack

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 1

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT  
REEL: 015604 FRAME: 0191

ASSIGNMENT

WHEREAS, I, **Michael Joens**, a German citizen, residing at 4 Sunnycrest Avenue, Beverly, Massachusetts 01915 has made an invention which invention is claimed and described in an application for Letters Patent of the United States of America entitled, "**LOW POWER SOLENOID DRIVER CIRCUIT**" in the U.S. Patent and Trademark Office filed on **May 4, 2004** under Serial No. **10/838,597**, and;

WHEREAS, **Millipore Corporation** of 290 Concord Road, Billerica, Massachusetts 01821, a corporation organized and existing under the laws of the State of Massachusetts, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any Letters Patent that may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I the undersigned party by these presents do sell, assigned and transfer unto **Millipore Corporation**, its successors and assigns the full, exclusive and worldwide right, to the said invention including the United States of America, and the entire right, title and interest in, to and under any Letters Patent which may be granted on said invention, or any parts thereof, or on any continuation, division or reissue thereof in the United States of America, in the territorial possessions of the United States of America and in any country foreign to the United States of America, the same to be held and enjoyed by **Millipore Corporation**, its successors and assigns as fully and entirely as the same would have been held by me, had this assignment not been made.

And I hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and respective Patent Office officials in any country foreign to the United States of America to issue said Letters Patent to said **Millipore Corporation** as the assignee of my entire right, title and interest in, to and under the same, and I hereby further authorize **Millipore Corporation** to apply for Letters Patent in my name or in its own name, as it in its sole discretion sees fit, utilizing any benefits which may exist under any International Agreement, in any country foreign to the United States of America.

And I, do hereby agree for myself and for my heirs, executors and administrators to execute any lawful document and to testify as to any material fact or thing which **Millipore Corporation**, its successors and assigns may deem necessary in order to secure unto itself, its successors and assigns the full right, title and interest in and to and the full enjoyment of said invention or any part thereof and any Letters Patent, the same to be done without any further consideration.

IN WITNESS WHEREOF, I hereby set my hand and affix my seal this 19<sup>th</sup> day of May, 2004.

Michael Joens  
Michael Joens

Mark J. Connell  
Witness