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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):**  
HECKMEIER, Michael  
GOETZ, Achim  
CZANTA, Markus  
PATRICK, John  
FARRAND, Louise Diane

**2. Name and address of receiving party(ies):**  
Name: Merck Patent GmbH  
Internal Address:

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

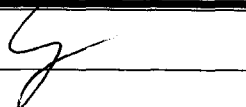
**3. Nature of Conveyance/Execution Date(s):**  
Execution Date(s): 01/05/2006  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other

Street Address:  
City: Darmstadt  
State:  
Country: Germany Zip:64271  
Additional names(s) or address(es) attached?  Yes  No

**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)  
03/01/2006 GFREY1 00000076 10569460  
05 Feb 2006 40.00 08  
Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: MILLEN, WHITE, ZELANO & BRANIGAN, P.C.  
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2200 Clarendon BLVD.  
Arlington, VA 22201  
Phone: (703) 243-6333  
Fax: (703) 243-6410  
E-Mail: mail@mwzb.com

**6. Total number of applications and patents involved: 1**  
**7. Total fee (37CFR 1.21(h) AND 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 13-3402 Authorized User Name

**9. Signature.**  
Signature  February 24, 2006  
Date  
Anthony J. Zelano  
Name of Person Signing  
Attorney Docket No. MERCK-3142  
Total number of pages including cover sheet, attachments, and documents 3

Documents 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, V.A. 22313-1450

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(AP12 Rec'd)

2006

**RECORDATION FORM COVER SHEET**

**MERCK-3142**  
**Page 2**  
**February 24, 2006**

1. Name of conveying party(ies):  
SCHOTT, Cecile  
MONTENEGRO, Elvira  
KIRSCH, Peer

# ASSIGNMENT

ATTY. DOCKET NO.:

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

**LIQUID CRYSTALLINE MEDIUM**

- for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.
- for which U.S. Application Serial No. \_\_\_\_\_ for Letters Patent was filed in the U.S. Patent and Trademark Office on \_\_\_\_\_
- for which an International Application was filed on 03.08.2004 as PCT/EP2004/008678, designating the United States.

**AND WHEREAS**

MERCK PATENT GESELLSCHAFT  
MIT BESCHRÄNKTER HAFTUNG  
Darmstadt, Germany

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application(s), including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.


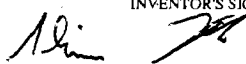

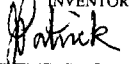
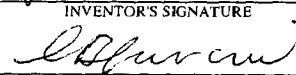
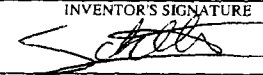
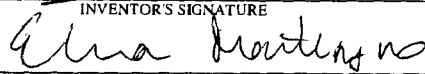
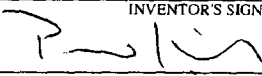
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
HECKMEIER, Michael		05.01.06
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
GOETZ, Achim		05.01.06
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
CZANTA, Markus		05.01.06
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
PATRICK, John		05.01.06
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
FARRAND, Louise Diane		05.01.06
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
SCHOTT, Cecile		05.01.06
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
MONTENEGRO, Elvira		05.01.06
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
KIRSCH, Peer		05.01.06
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
210 FULL NAME OF TENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

**PATENT**

**RECORDED: 02/24/2006**

**REEL: 017628 FRAME: 0514**