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Form PTO-1595

RECORD.

DEPARTMENT OF COMMERCE  
Patent and Trademark Office(Rev. 10/02)  
OMB No. 0651-0027 (exp. 6/30/2005)102571037  
**PATENTS ONLY**22389 U.S. PTO  
10/673477

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

**1. Name of conveying party(ies):**Peer KIRSCH  
Marc LENGES  
Michael HECKMEIER**2. Name and address of receiving party(ies):**Name: Merck Patent GmbH  
Street Address: Frankfurter StrasseAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of Conveyance:**

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

City: Darmstadt State: GERMANY Zip: 64293

No additional names(s) or address(es) attached ☐ Yes ☒ No

Execution Date: September 30, 2003

**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)

10673477

Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**Name: MILLEN, WHITE, ZELANO  
& BRANIGAN, P.C.  
Address: Arlington Court Plaza I  
Suite 1400  
2200 Clarendon BLVD.  
Arlington, VA 22201**6. Total number of applications and patents involved: 1**

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

- ☒
- Enclosed
- 
- ☐
- Authorized to be charged to deposit account

**8. DEPOSIT ACCOUNT NO. 13-3402**

(Attach duplicate copies 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.

John A. Sopp

Names of Person Signing

Signature

September 20, 2003

Date

Total number of pages including cover sheet, attachments, and documents 2

Attorney Docket No. MERCK-2778

10/07/2003 ECDOPER 00000124 10673477

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40.00 DP

PATENT  
REEL: 014555 FRAME: 0707

**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 \_\_\_\_\_ as \_\_\_\_\_, 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.

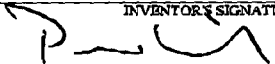


NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including 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
Peer Kirsch		Sept. 30, 2003
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Marc Lenges		Sept. 30, 2003
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Michael Heckmeier		Sept. 30, 2003
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
210 FULL NAME OF TENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE