

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Axel JANSEN</td><td>02/10/2011</td></tr><tr><td>Helmut HAENSEL</td><td>02/10/2011</td></tr><tr><td>Philipp KRATTIGER</td><td>02/10/2011</td></tr><tr><td>Andreas TAUGERBECK</td><td>02/10/2011</td></tr><tr><td>Malgorzata RILLICH</td><td>02/10/2011</td></tr></tbody></table>	Name	Execution Date	Axel JANSEN	02/10/2011	Helmut HAENSEL	02/10/2011	Philipp KRATTIGER	02/10/2011	Andreas TAUGERBECK	02/10/2011	Malgorzata RILLICH	02/10/2011	
Name	Execution Date												
Axel JANSEN	02/10/2011												
Helmut HAENSEL	02/10/2011												
Philipp KRATTIGER	02/10/2011												
Andreas TAUGERBECK	02/10/2011												
Malgorzata RILLICH	02/10/2011												
RECEIVING PARTY DATA													
Name:	MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG												
Street Address:	Frankfurter Strasse 250												
City:	Darmstadt												
State/Country:	GERMANY												
Postal Code:	64293												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13053479</td></tr></tbody></table>	Property Type	Number	Application Number:	13053479									
Property Type	Number												
Application Number:	13053479												
CORRESPONDENCE DATA													
Fax Number: (703)243-6410 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 7032436333													
Email: cassidy@mwzb.com													
Correspondent Name: Millen, White, Zelano & Branigan, P.C.													
Address Line 1: 2200 Clarendon Blvd.													
Address Line 2: #1400													
Address Line 4: Arlington, VIRGINIA 22201													
ATTORNEY DOCKET NUMBER:	MERCK-3836												
NAME OF SUBMITTER:	Helen Cassidy												
Total Attachments: 1 source=MERCK-3836_Assign_Executed#page1.tif													

OP \$40.00 13053479

501474932

PATENT  
REEL: 025996 FRAME: 0409

# 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 compounds and liquid-crystalline media**

and for which one or more of the following apply:

- ☐ U.S. Provisional Application Serial No. \_\_\_\_\_ was filed in the United States Patent and Trademark Office on \_\_\_\_\_
- ☒ A U.S. Non-Provisional
- ☒ application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.
- ☐ Application Serial No. \_\_\_\_\_ for Letters Patent was filed in the U.S. Patent and Trademark Office on \_\_\_\_\_
- ☐ as International Application No. \_\_\_\_\_ was filed on \_\_\_\_\_, 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 all application(s) listed above, 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.




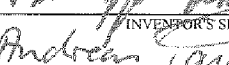
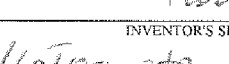
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including 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, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, 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 information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Axel JANSEN		10. Feb. 2011
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Helmut HAENSEL		10. Feb. 2011
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Philipp KRATTIGER		10. Feb. 2011
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Andreas TAUGERBECK		10. Feb. 2011
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Malgorzata RILLICH		10. Feb. 2011
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

PATENT

RECORDED: 03/22/2011

REEL: 025996 FRAME: 0410