

12-26-2001



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Execution Date
Month Day Year
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Name (line 2) REUTER

Second Party

Name (line 1) Michael

Execution Date
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Name (line 2) HECKMEIER

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Name (line 1) Merck Patent Gesellschaft mit

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Address (line 1) Frankfurter Strasse 250

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Address (line 3) DARMSTADT GERMANY D-64293

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Name Milien, White, Zelano & Branigan, P.C.

Address (line 1) 2200 Clarendon Boulevard

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Address (line 3) Arlington, VA 22201

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Mail documents to be recorded with required cover sheet(s) information to:
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Correspondent Name and Address

Area Code and Telephone Number

(703) 243-6333

Name Millen, White, Zelano & Branigan, P.C.

Address (line 1) 2200 Clarendon Boulevard

Address (line 2) Suite 1400

Address (line 3) Arlington, VA 22201

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Pages

Enter the total number of pages of the attached conveyance document including any attachments

4

Application Number(s) or Patent Number(s)

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Patent Application Number(s)

Patent Number(s)

09/960,723

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

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Number of Properties

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1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

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Deposit Account

Deposit Account

Enter for payment by deposit account or if additional fees can be charged to the account)

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13-3402

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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. Charges to deposit account are authorized, as indicated herein.

Harry B. Shubin

December 19, 2001

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Month Day Year

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Execution Date
Month Day Year

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

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Patent Application Number(s)

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ASSIGNMENT

ATTY. DOCKET NO.:MERCK-2303

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-CRYSTAL COMPOUND, LIQUID-CRYSTAL MEDIUM COMPRISING SAME, AND ELECTRO-OPTICAL LIQUID-CRYSTAL DISPLAY

- 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. 09/960,723 for Letters Patent was filed in the U.S. Patent and Trademark Office on September 24, 2001
- for which an International Application was filed on _____ as _____, designating the United States.

AND WHEREAS

Merck Patent Gesellschaft mit
beschränkter Haftung
Frankfurter Strasse 250
DARMSTADT, D-64293 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.

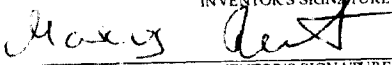


NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including 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

	INVENTOR'S SIGNATURE	DATE
201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR Marcus REUTER		26.11.2001
202 FULL NAME OF SECOND JOINT INVENTOR Michael HECKMEIER		26.11.2001
203 FULL NAME OF THIRD JOINT INVENTOR Volker REIFFENRATH		26.11.2001
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