

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Akihiro KOJIMA	01/27/2009
Makoto MURAKAMI	01/27/2009
Fumio SHIMANO	01/27/2009
Jeong Hee SUNG	01/27/2009
RECEIVING PARTY DATA	
Name:	MERCK PATENT GESELLSCHAFT
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State/Country:	GERMANY
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12397439
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ATTORNEY DOCKET NUMBER:	MERCK-3581
NAME OF SUBMITTER:	Brion P. Heaney
Total Attachments: 1 source=ASSIGNMENT#page1.tif	

OP \$40.00 12397439

PATENT

500796814

REEL: 022341 FRAME: 0309

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 and liquid-crystal display having high twist

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
KOJIMA, Akihiro	Kojima Akihiro	27.01.09
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
MURAKAMI, Makoto	Murakami Makoto	27.01.09
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
SHIMANO, Fumio	Shimano Fumio	27.01.09
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
SUNG, Jeong-Hee	Sung Jeong-hee	27.01.09
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

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RECORDED: 03/04/2009

REEL: 022341 FRAME: 0310