# PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE:   |                         | N      | NEW ASSIGNMENT |            |  |  |  |
|--|-------------------------|--------|----------------|------------|--|--|--|
| NATURE OF CONVEYANCE:  |                         |        | ASSIGNMENT     |            |  |  |  |
| CONVEYING PARTY DATA   |                         |        |                |            |  |  |  |
| Name Execution Date  |                         |        |                |            |  |  |  |
| Graziano ARCHETTI  |                         |        |                | 06/03/2013 |  |  |  |
| Andreas TAUGERBECK 06/03/2013  |                         |        |                |            |  |  |  |
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| PROPERTY NUMBERS Total: 1  |                         |        |                |            |  |  |  |
| Property Type  |                         |        | Number         |            |  |  |  |
| Application Number: 13983  |                         | 983312 | 312            |            |  |  |  |
| CORRESPONDENCE DATA  |                         |        |                |            |  |  |  |
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| NAME OF SUBMITTER:   |                         | С      | Csaba Henter   |            |  |  |  |
| Signature:   |                         | /C     | /Csaba Henter/ |            |  |  |  |
| Date:  |                         | 08     | 08/02/2013     |            |  |  |  |
| Total Attachments: 1<br>source=ASSIGNMENT#page1.tif  |                         |        |                |            |  |  |  |

### 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-CRYSTAL DISPLAYS HAVING HOMEOTROPIC ALIGNMENT

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 Seriel 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.

09.01.2012

AND WHEREAS

PCT/EP2012/000068 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 vahiable 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, trexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accuring or to accrue with respect to the filling or securing of patents in the United States and/or any countries foreign thereto concerning and all carlier priority rights (U.S. and foreign) divisions and continuations thereof, and all Letters Patent which may be granted therefor, including any and all carlier priority rights (U.S. and foreign) divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all carlier priority rights (U.S. and foreign) divisions and continuations thereof, including the right to sale 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, reissings and legal representatives 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 resignment had not been made.

AMD 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 property record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

| 201 FULL NAME OF SOLE OF FIRST NAMED INVENTOR<br>ARCHETTI, Graziano | ENVENTORE SIGNATORE<br>Granian Cheletter | 0 3. Juni 2013 |
|---|--|----------------|
| 202 FULL NAME OF SECOND JOINT INVENTOR                              | Andorn in plant                          | 0 3. Juni 2013 |
| 201 FOLL NAME OF THIRD JOINT INVENTOR                               | IPVIETOR'S SIGNATURE                     | DATE           |
| 204 FULL NAME OF FOURTH JOINT INVENTOR                              | INVENTOR'S SRIWATORE                     | DATE           |
| 282 FIRLE NAME OF FRITH JOINT INVENTOR                              | INVENTOP \$ SIGNATURE                    | DATE           |
| 206 FULL NAME OF SIXTHJOINT INVENTOR                                | INVERTORE SIGNATORE                      | DATE           |
| 207 PULE NAME OF SEVENIN JOINT INVENTOR                             | INVENTOR'S SIGNATURE                     | DATE           |
| 208 FOLC NAME OF EXHITY JOINT INVENTOR                              | INVENTOR'S SIGNATORE                     | DATE           |
| 209 PULL NAME OF NINTE JOINT INVENTOR                               | INVENTOR'S SIGNATURE                     | CATE           |
|   |  |                |

## RECORDED: 08/02/2013

## PATENT REEL: 030929 FRAME: 0821