

04-13-2001

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027



U.S. Department of Commerce  
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101662676  
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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

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- New
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3/29/01

Conveyance Type

- Assignment
  - License
  - Merger
  - Security Agreement
  - Change of Name
  - Other \_\_\_\_\_
- U.S. Government**  
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- Departmental File
  - Secret File

10997-U.S. PTO  
09/819799  
03/29/01

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Michael

Execution Date  
Month Day Year  
3 28 2001

Name (line 2) HECKMEIER

Second Party

Name (line 1) Marcus

Execution Date  
Month Day Year  
3 28 2001

Name (line 2) REUTER

09819799

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) MERCK GmbH

Name (line 2) \_\_\_\_\_

Address (line 1) Frankfurter Strasse 250

Address (line 2) \_\_\_\_\_

Address (line 3) Darmstadt

Germany

D-64293

City

State/Country

Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Millen, White, Zelano & Branigan

Address (line 1) Arlington Courthouse Plaza 1

Address (line 2) 2200 Clarendon Blvd., Suite 1400

Address (line 3) Arlington

Address (line 4) VA 22201

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Mail documents to be recorded with required cover sheet(s) information to:  
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REEL: 011662 FRAME: 0636

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Area Code and Telephone Number

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**Pages**

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

#

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached.

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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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 as not been assigned.

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

**Number of Properties**

Enter the total number of properties involved.

#

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$

Method of Payment: Enclosed  Deposit Account

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

Deposit Account Number: #

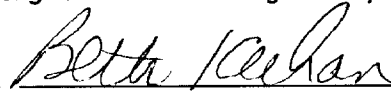
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**Statement and Signature**

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

Beth Keehan



3/28/01

Name of Person Signing

Signature

Date

RECORDATION FORM COVER SHEET  
CONTINUATION  
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**Conveying Party(ies)**

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Matthias

Execution Date  
Month Day Year  
3 28 2001

Name (line 2) BREMER

Name (line 1) Eike

Execution Date  
Month Day Year  
3 28 2001

Name (line 2) POETSCH

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

**Receiving Party(ies)**

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Enter additional Receiving Party(ies)

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

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Address (line 1)

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Address (line 3)

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**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)


ASSIGNMENT

ATTY. DOCKET NO.:

WHEREAS the below named inventor (if only one inventor is named below) of inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

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. \_\_\_\_\_ 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 PATENTGESELLSCHAFT  
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, including any and all 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, 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 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, SAID ASSIGNEE its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letter 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 extension thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as simple 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 THEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE INVENTOR OF FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
HECKMEIER, Michael	<i>Michael Heckmeier</i>	28.03.2001
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
REUTER, Marcus	<i>Marcus Reuter</i>	28.03.2001
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
BREMER, Matthias	<i>Matthias Bremer</i>	28.03.2001
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
POETSCH, Eike	<i>Eike Poetsch</i>	28.03.2001
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
211 FULL NAME OF ELEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
212 FULL NAME OF TWELFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

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