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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of

original documents or copy thereof.

1. Name of conveying party(ies)

**Inventor 1) Ayako Takeichi**  
**Inventor 2) Barbara Hornung**  
**Inventor 3) Hans-Rolf Dübal**

Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party(ies)

Name: **Aventis Research & Technology Deutschland GmbH & Co. KG**

Street Address: **D-65926 Frankfurt am Main**  
**Germany**

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

Assignment  
 Security Agreement  
 Merger  
 Change of Name  
 Other

Execution Date: Inventor 1) is April 13, 2000 and inventors 2)-3) is March 24, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:  
A. Patent Application No.(s) 09/462,858 Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **William F. Lawrence, Esq.**  
Internal Address: **Frommer Lawrence & Haug LLP**  
**745 Fifth Avenue**  
**New York, New York 10151**

6. Total number of applications and patents involved ..... 1

7. Total fee (37 CFR 3.41)..... \$ 40.00

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**William F. Lawrence, Reg. No. 28,029**

Name of Person Signing \_\_\_\_\_ Signature *William F. Lawrence mld. 6/15/00* \_\_\_\_\_

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**INVENTION/PATENT APPLICATION ASSIGNMENT**  
**FROM INVENTOR(S) TO COMPANY**

WHEREAS I/WE Ayako Takeichi, 647-1-1-103 Kitaakitsu Tokorozawa-shi, Saitama 350-1305, Japan, Barbara Hornung, Schulstrasse 21a, D-63594 Hasselroth, Germany, Hans-Rolf Dübal, Am Langenstück, 13, D-65343 Eltville, Germany, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled: **FERROELECTRIC LIQUID-CRYSTAL DISPLAY HAVING A BROAD OPERATING TEMPERATURE RANGE** executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

OR

for which an application for United States Letters Patent was filed on January 14, 2000, and identified by United States Serial No. 09 1462,858

AND WHEREAS, Aventis Research & Technologies GmbH & Co. KG, Brüningstrasse 50, D-65926 Frankfurt am Main, Germany, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries that may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto said assignee, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries that may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States that may be issued for said invention to said assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

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Date 2000-4-13  
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Signature: Ayako Takeichi  
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Signature: Barbara Hornung  
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Signature: Hans-Rolf Dübal  
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Signature: \_\_\_\_\_