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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of Conveying Party(ies):

**HITACHI, LTD.**Additional names of conveying parties attached: ☐ Yes ☒ No

2. Name and Address of Receiving Party(ies):

Name: **Hitachi Displays, Ltd.**  
Address: 3300 Hayano, Mobara-shi  
City: Chiba-ken, 297-8622, Japan

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other:

Execution Dates: **February 17, 2006**

4. (a) Patent Application Number(s):

If this document is being filed together with a new application, the execution date of the application is:

☒ Please see Schedule A attached hereto

4. (b) Patent Numbers:

- 10772454

5. Name and Address of Party to whom Correspondence Concerning this Document Should be Mailed:

Name: **Stanley P. Fisher**

Address: **Reed Smith LLP**  
3110 Fairview Park Dr.  
Suite 1400  
Falls Church, VA 22042

6. Total Number of Applications and Patents Involved: 1

7. Total Fee: **\$280.00**  
(37 C.F.R. § 3.41)

- ☒ Enclosed.  
☒ Authorized to be charged to deposit account.

8. Deposit Account Number: **08-1480**

ATTACH DUPLICATE COPY OF THIS PAGE IF PAYING BY DEPOSIT ACCOUNT

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9. Statement and Signature:

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*

Stanley P. Fisher, Registration No. 24, 344

*[Signature]* **March 7, 2006**  
Juan Carlos A. Marquez, Registration No. 34,072

Total number of pages comprising cover sheet: 1

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**PATENT**  
**REEL: 017654 FRAME: 0171**

**SCHEDULE A**

<b>U.S. Application No.</b>	<b>U.S. Filing Date</b>	<b>Attorney Docket #</b>
<b>10/772,454</b>	<b>02/06/2004</b>	<b>NITT.0183</b>
<b>10/772,431</b>	<b>02/06/2004</b>	<b>NITT.0188</b>
<b>10/775,114</b>	<b>02/11/2004</b>	<b>NITT.0190</b>
<b>10/712,712</b>	<b>11/14/2003</b>	<b>HITA.0458</b>
<b>10/772,447</b>	<b>02/06/2004</b>	<b>NITT.0185</b>
<b>10/757,588</b>	<b>01/15/2004</b>	<b>HITA.0488</b>
<b>11/341,681</b>	<b>01/30/2006</b>	<b>HITA.0796</b>

## ASSIGNMENT

WHEREAS, **Hitachi, Ltd.**, whose post office address is 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan, hereinafter referred to as **ASSIGNOR**, have invented certain new and useful improvements in inventions for which applications for United States Letters Patent were filed, as listed in Schedule A attached hereto, and for which **ASSIGNOR** is currently joint assignee.

WHEREAS, **Hitachi Displays, Ltd.**, whose post office address is 3300 Hayano, Mobara-shi, Chiba-ken, 297-8622, Japan (hereinafter referred to as **ASSIGNEE**), and who is currently joint assignee with **ASSIGNOR** for the same, is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

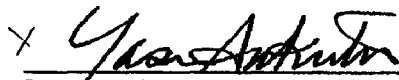
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, we, **ASSIGNOR**, by these presents do sell, assign and transfer until said **ASSIGNEE**, all right, title and interest currently owned, held or possessed by **ASSIGNOR** in and to said inventions and applications as listed in Schedule A throughout the United States of America, including any and all United States Letters Patent granted on any divisional, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said inventions throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded **ASSIGNOR** under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said inventions.

ALSO, **ASSIGNOR** here by agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said applications or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said inventions, including additional documents that may be required to affirm the rights of **ASSIGNEE** in and to said inventions, all without further consideration. **ASSIGNOR** also agrees, without further consideration and at **ASSIGNEE'S** expense, to identify and communicate to **ASSIGNEE** at **ASSIGNEE'S** request documents and information concerning the inventions that are within **ASSIGNOR'S** possession or control, and to provide further assurances and testimony on behalf of **ASSIGNEE** that lawfully may be required of **ASSIGNOR** in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. **ASSIGNOR'S** obligations under this instrument shall extend to **ASSIGNOR'S** heirs, executors, administrators and other legal representatives.

**ASSIGNOR** hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to **ASSIGNEE** of the entire right, title and interest in and to the same, for **ASSIGNEE'S** sole use and behalf; and for the use and behalf of **ASSIGNEE'S** legal representatives and successors, to the full end of the term for which such Letters patent may be granted, as fully and entirely as the same would have been held by **ASSIGNOR** had this assignment and sale not been made.

Hitachi, Ltd.

X 2/17/2006  
Date

X   
Yasuo Sakuta, Patent Attorney  
Vice President and Executive Officer  
Intellectual Property Group  
(Authorized Signing Officer)

PATENT

RECORDED: 03/07/2006

REEL: 017654 FRAME: 0173