

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Hisayoshi Kajiwara</td><td>06/26/2007</td></tr><tr><td>Norio Mamba</td><td>06/26/2007</td></tr><tr><td>Toshio Miyazawa</td><td>06/29/2007</td></tr></tbody></table>	Name	Execution Date	Hisayoshi Kajiwara	06/26/2007	Norio Mamba	06/26/2007	Toshio Miyazawa	06/29/2007	
Name	Execution Date								
Hisayoshi Kajiwara	06/26/2007								
Norio Mamba	06/26/2007								
Toshio Miyazawa	06/29/2007								
RECEIVING PARTY DATA									
Name:	Hitachi Displays, Ltd.								
Street Address:	3300, Hayano, Mobara-shi,								
City:	Chiba								
State/Country:	JAPAN								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11830027</td></tr></tbody></table>	Property Type	Number	Application Number:	11830027					
Property Type	Number								
Application Number:	11830027								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	500.47717X00								
NAME OF SUBMITTER:	Melvin Kraus								
Total Attachments: 2 source=47717X00ASN#page1.tif source=47717X00PTO1595#page1.tif									

OP \$40.00 11830027

PATENT

500343054

REEL: 019753 FRAME: 0644

ASSIGNMENT

(譲 渡 証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi Displays, Ltd.,
a corporation organized under the laws of Japan,
located at 3300 Hayano, Mobara-shi, Chiba, Japan
receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi Displays, Ltd.,
its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

VOLTAGE CONVERTER AND DISPLAY DEVICE COMPRISING A VOLTAGE CONVERTER

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted,
to be held and enjoyed by said Hitachi Displays, Ltd.,
its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Displays, Ltd.,

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)
(発明者フルネームサイン)

Date Signed
(署名日)

1) Hisayoshi KAJIWARA
Hisayoshi KAJIWARA

6/26/07

2) Norio Mamba
Norio MAMBA

6/26/07

3) Toshio Miyazawa
Toshio MIYAZAWA

6/29/07

4) _____

5) _____

6) _____

7) _____

8) _____

9) _____

10) _____

PATENT

REEL: 019753 FRAME: 0645

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

Attorney Docket No. 500.47717X00

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

1. Name of conveying party(ies):
Hisayoshi KAJIWARA
Norio MAMBA
Toshio MIYAZAWA

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

2. Name and address of receiving party(ies)
Name: **HITACHI DISPLAYS, LTD.**

Address: **3300, Hayano, Mobara-shi
Chiba, Japan**

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

3. Nature of conveyance/ Execution Date: **June 26, 2007; June 26, 2007; June 29, 2007.**

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

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

A. Patent Application No.(s)
11/830,027

Additional number(s) attached ☐ Yes ☒ No

☐ This document is being filed together with a new application.

B. Patent Registration No.(s)

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

Name: **ANTONELLI, TERRY, STOUT & KRAUS, LLP**

Internal Address:

1300 NORTH 17TH STREET – SUITE 1800

City: **ARLINGTON** State: **VA** Zip **22209**

Phone Number: (703) 312-6600
Facsimile Number: (703) 312-6666
Email Address: email@antonelli.com

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

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

☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information:

a. Credit Card Last 4 numbers: 1156
Expiration date: 06/09

b. Deposit account number: 01-2135

Authorized User Name: Alfred A. Stadnicki

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9. 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.

Melvin Kraus, Reg#22,466

Name of Person Signing

/ Melvin Kraus/

Signature

08/28/2007

Date

Total number of pages including cover sheet, attachments, and document: **2**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450