

## PATENT ASSIGNMENT

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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>Christopher James BROWN</td><td>09/26/2008</td></tr><tr><td>Ben James HADWEN</td><td>09/29/2008</td></tr></tbody></table>	Name	Execution Date	Christopher James BROWN	09/26/2008	Ben James HADWEN	09/29/2008	
Name	Execution Date						
Christopher James BROWN	09/26/2008						
Ben James HADWEN	09/29/2008						
RECEIVING PARTY DATA							
Name:	SHARP KABUSHIKI KAISHA						
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City:	Osaka						
State/Country:	JAPAN						
Postal Code:	545-8522						
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>12303567</td></tr></tbody></table>	Property Type	Number	Application Number:	12303567			
Property Type	Number						
Application Number:	12303567						
CORRESPONDENCE DATA							
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ATTORNEY DOCKET NUMBER:	HARAP0229US						
NAME OF SUBMITTER:	Mark D. Saralino						
Total Attachments: 2 source=12303567Assignment#page1.tif source=12303567Assignment#page2.tif							

OP \$40.00 12303567

PATENT

500723290

REEL: 021934 FRAME: 0722

**ASSIGNMENT**

**WHEREAS:**

NAME(S) AND  
ADDRESS(ES) OF  
INVENTOR(S)

Christopher James BROWN and Ben James HADWEN

The Manse, Barrashead, Lochmaben, Lockerbie, DG11 1QF United Kingdom  
85 Bayswater Road Headington Oxford OX3 9PD United Kingdom

(hereinafter referred to as ASSIGNOR), have invented a certain invention entitled:

TITLE OF  
INVENTION

**IMAGE SENSOR AND DISPLAY**

for which application for Letters Patent of the United States has been:

PARTICULARS OF  
APPLICATION

[ ] executed concurrently herewith,  
[X] filed under U.S. Application No. 12/303,567 on 05 DEC 2008, or PCT International  
Application No. PCT/JP2007/062184 on June 11, 2007  
[ ] filed under Express Mail Label No. \_\_\_\_\_ on \_\_\_\_\_.

**WHEREAS:**

NAME, STATE OF  
INCORPORATION  
AND ADDRESS OF  
ASSIGNEE

SHARP KABUSHIKI KAISHA  
22-22, Nagaike-cho, Abeno-ku, Osaka-shi  
Osaka 545-8522 Japan

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention (including all inventions should said application be deemed to include multiple inventions).

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that ASSIGNOR has the full power to make this assignment and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and that ASSIGNOR will testify as to the same in any legal proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce patent protection for said invention in all countries.

Attorney Docket No.

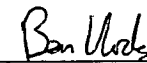
I authorize the patent attorney of record and/or having power of attorney in the U.S. patent application identified above to insert the serial number and filing date information for the patent application in the appropriate spaces in this assignment document when that information becomes available.

FULL NAME(S) OF  
INVENTOR(S)

Date 26/09/2008

  
\_\_\_\_\_  
Christopher James BROWN

Date 29/09/2008

  
\_\_\_\_\_  
Ben James HADWEN