PATENT ASSIGNMENT

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY D	ATA			
		Execution Date		
Benjamin J. HADWEN			06/28/2010	
Jason R. HECTOR			06/28/2010	
Adrian Marc Simon JACOBS			06/28/2010	
Patrick A. ZEBEDEE			06/28/2010	
RECEIVING PARTY DA	TA			
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Postal Code:	545-8522			
PROPERTY NUMBERS	Total: 1]	
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Property Typ	ie 1283			
Property Typ Application Number:	ie 1283	0477		
Property Typ Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i>	DATA (216)621-616	0477		
Property Typ Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> Phone:	DATA (216)621-616 <i>sent via US Mail v</i> 2166211113	0477 5 when the fax attempt is unsuccessful.		
Property Typ Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> Phone: Email:	DATA (216)621-616 <i>sent via US Mail</i> I 2166211113 msaralino@re	0477 5 when the fax attempt is unsuccessful. nnerotto.com		
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Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> Phone: Email: Correspondent Name:	DATA (216)621-616 <i>sent via US Mail</i> v 2166211113 msaralino@re Mark D Sarali Renner, Otto,	5 5 when the fax attempt is unsuccessful. nnerotto.com no Boisselle & Sklar, LLP venue, Nineteenth Floor		
Property Typ Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	e [1283] DATA (216)621-616 e sent via US Mail u 2166211113 msaralino@re Mark D Sarali Renner, Otto, 1621 Euclid A Cleveland, Of	5 5 when the fax attempt is unsuccessful. nnerotto.com no Boisselle & Sklar, LLP venue, Nineteenth Floor		

Total Attachments: 2

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PATENT REEL: 024634 FRAME: 0969

Attorney Docket No. SHRPP0131US

ASSIGNMENT

WHEREAS:

NAME(6) AND ADDRESS(ES) OF INVENTOR(S) Benjamin J. HADWEN 85 Bayswater Road Oxford OX3 9PD United Kingdom

Jason R. HECTOR 5 Fox Close, Garsington Oxford OX44 9AA United Kingdom

Adrian Marc Simon JACOBS 15 Hilltop Road, Caversham Reading RG4 7HR United Kingdom

Patrick A. ZEBEDEE 56 Bailey Road, Cowley Oxford OK4 3HY United Kingdom

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

TITLE OF

ARRAY ELEMENT CIRCUIT AND ACTIVE MATRIX DEVICE

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

PARTICULARS OF APPLICATION					

[X]

XX [] executed concurrently herewith, filed under U.S. Application No.<u>12/830</u>, on 06 JULY 2010, or filed under Express Mail Label No.

hereby sell(s) and assign(s) the entire worldwide right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries to:

NAME, STATE OF INCORPORATION AND ADDRESS OF ASSIGNEE SHARP KABUSHIKI KAISHA 22-22, Nagaike-cho, Abeno-ku, Osaka-shi Osaka 545-8522 Japan

Including:

any and all related patent application n(s) in the United States or a country foreign thereto, including continuations, continuations-in-part, divisionals, conversions, renewals, substitutes, reissues, reexaminations, extensions, non-provisional applications, convention, International (e.g., Patent Cooperation Treaty (PCT)) and other applications based in whole or in part upon said invention(s) or upon said application(s);

any and all Letters Patent, renewals, reissues, reexamination certificates and extensions of Letters Patent granted for said invention(s) or upon said application(s); and

every priority right that is or may be predicated upon or arise from said invention(s), said application(s) and said Letters Patent.

I/We additionally authorize the Assignee to file patent applications in my/our name for Letters Patent in any country (by international convention, treaty or otherwise), to be held and enjoyed by the Assignee, its successors and assigns, to the full end of the term or terms for which Letters Patent respectively may be granted, reissued, reexamined or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this Assignment and transfer not been made.

I/We also appoint the Assignee as my/our common representative to represent me/us before all the competent International Authorities in connection with any and all international applications.

PATENT REEL: 024634 FRAME: 0970

Attorney Docket No. SHRPP0131US

I/We hereby authorize the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to the Assignee in accordance herewith.

I/We hereby covenant that I/we have the full right to convey the entire interests herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith and that such assigned rights are not encumbered by any grant, license or other right previously given. I/We agree that each time a request is made, and without undue delay, I/we will execute and deliver all such papers as may be necessary or desirable to perfect the title in and to the invention(s), said application(s) and said Letters Patent, to the Assignee, its successors or assigns.

I/We agree, without undue delay, to undertake all reasonable acts to assure that said invention(s), patent application(s) and Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly: to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, declarations, powers of attorney, assignments, invention disclaimers and lawful affidavits in form and substance which may be requested by the Assignee; to furnish the Assignee with all facts relating to said invention(s) or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said invention(s), and to testify in any proceedings relating to said invention(s), patent application(s) and Letters Patent.

I/We hereby sell, assign and transfer unto the Assignee the authority to revoke power(s) of attorney executed by me/us in connection with this application and to appoint a new power of attorney in place thereof.

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 INVENTORS(S)

Date Date

Date

Benjamin J. Jason R Adrian Marc Simon JACOBS 1.2

ick ZEBEDEE

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RECORDED: 07/06/2010

PATENT REEL: 024634 FRAME: 0971