PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Oliver Edward THOMAS	11/17/2010
Andrew James SHIELDS	11/17/2010
Zhiliang YUAN	11/18/2010

RECEIVING PARTY DATA

Name:	Kabushiki Kaisha Toshiba	
Street Address:	1-1, Shibaura 1-chome, Minato-ku	
City:	Tokyo	
State/Country:	JAPAN	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12906624

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (703) 413-3000

Email: mkassaye@oblon.com
Correspondent Name: Oblon, Spivak, et al.
Address Line 1: 1940 Duke Street

Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 370067US2CRL

NAME OF SUBMITTER: Mesfin Kassaye

Total Attachments: 2

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OP \$40.00 1290662

PATENT REEL: 025551 FRAME: 0560

Assignment of Application

WHEREAS, I (WE)	Oliver Edward THOMAS,				
	Andrew James SHIELD	S,			
	and Zhiliang YUAN, all of Cambridge, Cambridgeshire, United Kingdom				
				The second secon	
	· · · · · · · · · · · · · · · · · · ·				
				, respectively	
				,	
have invented certain	in new and useful improv	ements in: <u>A PHC</u>	OTON DETECTOR		
(Application No1	12/906,624	, filed	October 18, 2010), and	
WHEREAS,_H	Kabushiki Kaisha Toshiba	1			
(hereinafter referred	d to as "ASSIGNEE") ha	aving a place of b	ousiness at: 1-1, Shibaura	1-chome, Minato-ku, Tokyo,	

Japan is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:	17/11/2010	h. b	
		(Signature of Inventor) Oliver Edward THOMAS	
Date: _	17/11/10	Indrew Shedel	
	`	(Signature of Inventor) Andrew James SHIELDS	
Date:	18/11/2010	nt	
		(Signature of Inventor) Zhiliang YUAN	

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

07/09

RECORDED: 12/29/2010

PATENT REEL: 025551 FRAME: 0562