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U.S. Department of Commerce Patent and Trademark Office Atty. Docket No. 04329.4029-00000 Atty. Customer Number: 22,852

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1. Name of conveying party(les): Yoshio KUBO Yoshio KUBO Name: KABUSHIKI KAISHA TOSHIBA Additional name(s) of conveying party(les) attached? Yes No Nature of conveyance/Execution Date(s):	100040070 ademarks Office. Please record	The attacked original documents of copy thereof.		
Street Address: 1-1, Shibaura 1-chome, Minato-ku Tokyo 105-8001, JAPAN	1. Name of conveying party(ies):	2. Name and address of receiving party(ies):		
Execution Dates(s) October 19, 2006 Assignment	Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	Internal Address:		
Execution Dates(s) October 19, 2006 Assignment				
Security Agreement Change of Name State: Zip Code: Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License This document is being filed together with a new application. Application number(s) or patent number(s): This document is being filed together with a new application. A. Patent Application Number(s): B. Patent Number(s): 11/589,211 Additional numbers attached? Yes No Name and address of to whom correspondence concerning document should be mailed: Name: Mr. Ernest F. Chapman Total number of applications and registrations involved: One (1) Authorized to be charged by credit card Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed (Please charge deficiency to deposit account) None required (government interest not affecting title) Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.P. Street Address: 901 New York Avenue, NW Expiration Date D. Deposit Account No.: 06-0916 State: Zip: 20001-4413 Authorized User Name December 8, 2006 Date Date Date December 8, 2006 Date D		Tokyo 105-8001, JAPAN		
Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Yes No	Assignment	City:		
Government Interest Assignment Executive Order 9424, Confirmatory License Yes No	☐ Security Agreement ☐ Change of Name	State: Zip Code:		
Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application number(s) or patent number(s): A. Patent Application Number(s): 11/589,211 Additional numbers attached? Yes No 5. Name and address of to whom correspondence concerning document should be mailed: Name: Mr. Ernest F. Chapman 7. Total fee (37 CFR 3.41): \$40 Authorized to be charged by credit card Authorized to be charged to deposit account) National Address: FINNEGAN, HENDERSON, FARABOW, GARRETT B. DUNNER, S.L.P. Street Address: 901 New York Avenue, NW City: Washington, D.C. City: Washington, D.C. State: Zip: 20001-4413 Authorized User Name B. 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. Richard V. Burgujian, Reg. No. 31,744 Typed Name of Signor	Joint Research Agreement	Additional name(s) & Address(es) attached?		
Other 4. Application number(s) or patent number(s): Application Number(s): B. Patent Number(s): 11/589,211 Additional numbers attached? Yes ⊠ No 5. Name and address of to whom correspondence concerning document should be mailed: Name: Mr. Ernest F. Chapman 7. Total fee (37 CFR 3.41): \$40 P2006 BBYRNE 0000142 11589211 1a8021 Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, \L.P. Street Address: 901 New York Avenue, NW City: Washington, D.C. State: Zip: 20001-4413 Authorized to be starged by credit card Last 4 Numbers Expiration Date Expiration Date B. Payment Information a. Credit Card Last 4 Numbers Expiration Date B. Deposit Account No.: 06-0916 State: Zip: 20001-4413 Authorized User Name December 8, 2006 Date	Government Interest Assignment			
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Richard V. Burgujian, Reg. No. 31,744 Typed Name of Signor December 8, 2006 Date	8. Statement and signature.	-		
Typed Name of Signor Date				
Typed Name of Signor Date	Richard V. Burguijan, Reg. No. 31.744	December 8, 2006		
Total number of pages including cover sheet, attachments and documents: Three (3)				

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, PO box 1450, Alexandria, VA 22313-1450

FPD/acd

ASSIGNMENT

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

PROJECTION TYPE IMAGE DISPLAY APPARATUS AND LIGHTING CIRCUIT CONTROL METHOD

sell and assign to KABUSHIKI KAISHA TOSHIBA a Japanese corporation, having a business address at 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one)	[X]	executed concurrently herewith	
	[]	executed on	;
	[]	Application No.	, filed

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., 901 New York Avenue, NW Washington, D.C. 20001-4413

PATENT REEL: 018689 FRAME: 0241

RECORDED: 12/08/2006