11-17-2006



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Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) Name: Samsung Electronics Co., Ltd. Osamu KONUMA Internal Address: Additional name(s) of conveying party(ies) attached? Yes 🗸 No Street Address: 416, Maetan-dong, Yeongtong-gu 3. Nature of conveyance/Execution Date(s): Execution Date(s) Nov. 6, 2006 ✓ Assignment Merger City: Suwon-si J Security Agreement J Change of Name State: Gyeonggi-do ___ Joint Research Agreement Government Interest Assignment Country: Korea Zip:_ Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? ☐ Yes ✔ No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: 1 Name: John E. Holmes 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: Authorized to be charged by credit card Roylance, Abrams, Berdo & Goodman, L.L.P. Authorized to be charged to deposit account ✓ Enclosed Street Address: 1300 19th Street, N.W., Suite 600 None required (government interest not affecting title) 8. Payment Information City: Washington a. Credit Card Last 4 Numbers State: D.C. Zip: 20036 Expiration Date Phone Number: (202) 659-9076 b. Deposit Account Number 18-2220 Fax Number: (202) 659-9344 Authorized User Name _ Email Address: 9. Signature: November 13, 2006 Signature Date Marcus R. Mickney Total number of pages including cover Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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PATENT REEL: 018600 FRAME: 0121 Our File No: 52750 Your File No: SH-27483-US

ASSIGNMENT

WHEREAS, I, Osamu KONUMA, a citizen of Japan residing at c/o Samsung Yokohama Research Institute 2-7, Sugasawa-cho, Tsurumi-ku, Yokohama 230-0027, Japan (hereinafter "ASSIGNOR"), have made a certain invention entitled "ILLUMINATION OPTICAL SYSTEM, ILLUMINATION UNIT AND IMAGE PROJECTION APPARATUS EMPLOYING THE SAME" for which I am making application for Letters Patent of the United States, which application is being executed concurrently herewith; and

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (hereinafter "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to the aforementioned invention and the aforementioned application and any and all United States Letters Patent to be obtained on said invention and/or application;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that for good and valuable consideration paid to me by said ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, by these presents do hereby sell, assign, set over and transfer unto the said ASSIGNEE, its successors, legal representatives or assigns, the entire right, title and interest in and to the aforesaid invention in and for the United States; and in, to and under the aforesaid United States application and any divisional, continuing, substitute or reissue applications or supplementary disclosures which may be filed on said invention in the United States; and our right to file said applications and claim priority under the provisions of any international treaty or convention; and in and to any Letters Patent of the United States issued or granted on said invention and/or said applications;

AND I HEREBY authorize and request the U.S. Patent and Trademark Office or other issuing authority to issue any and all patents on said invention and/or said applications to said ASSIGNEE as sole assignee;

AND I HEREBY covenant that I have the full right to convey the entire right, title and interest herein assigned and that I have not executed and will not execute any assignment or other instrument in conflict herewith;

AND I HEREBY further covenant and agree to communicate to said ASSIGNEE, or its legal representatives, successors or assigns, any facts relating to said invention, including evidence for interference purposes or other proceedings, whenever requested, and to testify in any interference or in any other legal proceeding, when requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective; and to perform the aforesaid communicating, executing and delivering, without any payment except expenses and to perform the aforesaid testifying for reasonable compensation; and generally to do everything possible to aid the said ASSIGNEE, its successors, legal representatives or assigns to obtain and enforce proper patent protection on and for said

ASSIGNMENT

PATENT REEL: 018600 FRAME: 0122 invention in the United States, and likewise I make these provisions binding upon our heirs, legal representatives and/or administrators.

I hereby grant the firm of Roylance, Abrams, Berdo & Goodman, L.L.P. 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 United States Patent and Trademark Office for recordation of this document.

IN	WITNESS WHEREOF, I have here	eunder set my hand and seal this6th day of
November	, 2006.	
		Osamu Konuma
		Osamu KONUMA
Witness		

ASSIGNMENT

RECORDED: 11/13/2006

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