Client Code: SUTOSH.589AUS

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or numbers for multiple parties)	Name: Kabushiki Kaisha Toshiba		
1. Tsutomu lwaki 2. Koji Hachiya	Street Address: 1-1, Shibaura, 1-chome, Minato-ku		
Additional name(s) of conveying party(ies)	City: Tokyo, Japan		
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() Yes (X) No	Additional name(s) of receiving party(ies) attached?		
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signatures) 1. April 8, 2010	(X) Patent Application No.: 12/777,119 Filing Date: May 10, 2010		
2. April 8, 2010	Additional numbers attached?		
	() Yes (X) No		
Party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: 1		
Customer No. 20,995			
Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14 th Floor Irvine, CA 92614 Return Fax: (949) 760-9502 Attorney's Docket No.: SUTOSH.589AUS			
7. Total fee (37 CFR 1.21(h)): \$40.00	8. Deposit account number: 11-1410		
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PATENT REEL: 024363 FRAME: 0214

ASSIGNMENT

3KG051299-USA-A (09S1197)

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:

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have sold and assigned and do hereby 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)	l l	executed concurrently herewith executed on	; . filed
	[]	Application No.	, mea

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.

Mr. Irfan Lateef, Knobbe, Martens, Olson & Bear LLP, 2040 Main Street, 14th Floor, Irvine, CA 92614

PATENT REEL: 024363 FRAME: 0215

ASSIGNMENT

3KG051299-USA-A (09\$1197)

[1st Inventor]

Residence Address: Hanno-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,

Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

[2nd Inventor]

Residence Address: Akishima-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1 chome,

Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

PATENT

REEL: 024363 FRAME: 0216

RECORDED: 05/10/2010