
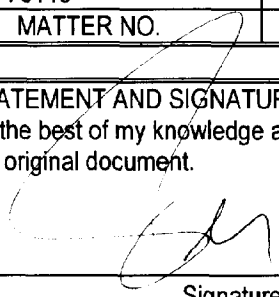


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BOX ASSIGNMENTS

08-09-1999

SE FOR TRADEMARKS

<b>RECORDATION PATENT APPLICA</b>			
TO THE ASSISTANT COMMISSIONER OF PATENTS AND SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUM			
1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)): 1. MELCO TECHNOREX CO., LTD.			
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST: NAME: MITSUBISHI DENKI KABUSHIKI KAISHA			
ADDRESS: 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan			
3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith <u>only one document</u> for recordation—multiple copies of same Assignment signed by different inventors is one document)			
<input checked="" type="checkbox"/> ASSIGNMENT OF		<input checked="" type="checkbox"/> WHOLE <input type="checkbox"/> PART INTEREST	
<input type="checkbox"/> CHANGE OF NAME		<input type="checkbox"/> ACCURATE TRANSLATION	
<input type="checkbox"/> SECURITY		<input type="checkbox"/> MERGER <input type="checkbox"/> OTHER:	
EXEC. DATE: May 18, 1999			
EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)			
4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
<b>A. PAT. APP. NO.(S)</b> series code/serial no	<b>M#</b>	<b>1* INVENTOR</b> if not in item 1	<b>B. PATENT NO(S)</b> <b>M#</b> <b>1* INVENTOR</b> if not in item 1
			5,038,031 76115 KUROSAWA
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:  <b>Pillsbury Madison &amp; Sutro LLP</b> <b>Intellectual Property Group</b> 1100 NEW YORK AVENUE, N.W. NINTH FLOOR, EAST TOWER WASHINGTON, D.C. 20005-3918		6. NUMBER INVOLVED: APPLNS ____ + PATS <u>1</u> = TOTAL <u>1</u>	
		7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40	
5.5 ATTY DKT:  PMS 76115 MATTER NO.		8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 7326 76115 dup. sheet not required CLIENT NO. MATTER NO.	
		US-9010 CLIENT REF.	
9. 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.			
Signature 			10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet) <span style="float: right; border: 1px solid black; padding: 2px;">3</span>
Attorney: Timothy J. Klima		Date: August 4, 1999	
Reg. No. 34852		Atty/Sec: TJK/blg TEL: (202) 861-3662 FAX: (202) 822-0944	

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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Please return signed/recorded to:  
Pillsbury Madison & Sutro IP Group  
Ninth Floor, East Tower  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3918

**ASSIGNMENT**

For ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the recipient,

Melco Technorex Co., Ltd., a corporation organized under Japanese law, having a place of business at 1929-1 Aza Sotonokirikaichi, Hamakawa Shinden, Daitou-cho, Ogasa-gun, Shizuoka, Japan, hereinafter collectively referred to as "Assignors," which are joint owners with Mitsubishi Denki Kabushiki Kaisha, a corporation organized under Japanese law, having a place of business at 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan of all rights in the following issued United States Patent:

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Patentee	Patent No.	Issue Date	Title
Kurosawa et al.	5,038,031	06 August 1991	OPTICAL ROTARY ENCODER

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and of all rights for the territory of the United States in the inventions disclosed and claimed therein, at the request of Mitsubishi Denki Kabushiki Kaisha, a corporation organized under Japanese law, having a place of business at 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan, hereinafter "Assignee," hereby sell, assign and transfer to Assignee their entire right, title and interest for the United States, as defined in U.S.C. § 100, in and to the above-listed patent and the invention disclosed and claimed therein, and in and to all divisions, continuations, substitutes, extensions, and reissues of those patents and the underlying United States patent application(s), and all resulting United States patents, as well as all of their rights to sue and recover for past and/or continuing infringement thereof.

The undersigned hereby authorizes and requests the U.S. Commissioner of Patents and Trademarks to issue any said resulting patents to assignee for its interest, and its successors, assigns and legal representatives.

The undersigned agrees that the attorneys of record in the patent shall hereafter act on behalf of assignee.

The undersigned agrees to testify and execute any papers for assignee, its successors, assigns and legal representatives, deemed essential by assignee to full protection of and title to the patent and invention(s) hereby transferred to assignee.

Signed by the undersigned by its duly authorized officer on the date indicated below beside his/her signature:

Melco Technorex Co., Ltd.

by: Katsuhiko Horiuchi

Katsuhiko Horiuchi

its duly authorized President

Date: may 18 1999

MNL:rei