U.S. DEPARTMENT OF COMMERCE Form PTO-1595 (Rev. 03-05) 03-05-2007 OMB No. 0651-0027 (exp. 6/30/200 United States Patent and Trademark Office EET 103377744 To the Director of the U.S. P. ed documents or the new address(es) below. 2. Name and address of receiving party(les) 1. Name of conveying party(ies): Nobuo Takeshita (1/23/2007), Toshiya MATOZAKI Mitsubishi Electric Corporation (1/23/2007), Keiji NAKAMURA (1/24/2007), and Mitoru YABE (1/24/2007) Internal Address: X No Additional name(s) of conveying party(ies) attached? Street Address: 3. Nature of conveyance/Execution Date(s): 7-3, Marunouchi 2-chome, Chiyoda-ku Tokyo Execution Date(s): in parentheses after inventor name 100-8310 **JAPAN** x Assignment Merger Change of Name Joint Research Agreement Security Agreement City: Government Interest Assignment State: Executive Order 9424, Confirmatory License Zip: Country: Additional name(s) & address(es) Yes x No attached: 4. Application or patent number(s): x This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) NEW Additional numbers attached? Yes x No 5. Name and address to whom correspondence 6. Total number of applications and concerning document should be mailed: patents involved: Name: D. Richard Anderson BIRCH, STEWART, KOLASCH & BIRCH, LLP 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: Atty. Dkt.: 1190-0655PUS1 Authorized to be charged by credit card Street Address: 8110 Gatehouse Road Authorized to be charged to deposit account Suite 100 East P.O. Box 747 **Enclosed** None required (government interest not affecting title) City: Falls Church 8. Payment Information Zip: 22040-0747 State: a. Credit Card Last 4 Numbers (703) 205-8035 **Expiration Date** Phone Number: (703) 205-8050 Fax Number: b. Deposit Account Number mailroom@bskbldom **Authorized User Name** Email Address: 9. Signature: February 8, 2007 Date D. Richard Anderson - 40,439 Total number of pages including cover 3 sheet, attachments, and documents: Name of Person Signing

02/09/2007 LWONDIM1 00000049 11703738 04 FC:8021 40.00 GP

Birch, Stewart, Kolasch & Birch, LLP

DRA/sll

**REEL: 018984 FRAME: 0658** 

## BIRCH, STEWART, KOLASCH & BIRCH, LLP

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## **ASSIGNMENT**

	Application No	NEW	<del></del>	Filed February 8,	200
usert Name(s) f Inventor(s)	***(Given Name FAMILY NAME (ALL CAPS))***				
• • •	WHERE	AS,	Nobuo TAKESHITA	; Toshiya MATOZAKI	
	Keiji NAKAMU	RA	Mitoru YABE		
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	(hereinafter desig	nated as the t	undersigned) has (have) invented co	ertain new and useful improvements in	
nsert Title					
f Invention	OPT	CAL ELE	MENT DRIVING APPARAT	US	
	for which an appl undersigned (exce	lication for Lept in the case	etters Patent of the United States of a provisional application).	of America has been executed by the	
nsert Date f Signing of pplication	on January 23, 2007 and January 24, 2007 ; and				
sert Name Assignee	WHEREAS,Mitsubishi Electric Corporation				
isert Address f Assignee	7-3, Mar	unouchi	2-chome, Chiyoda-ku, T	OKYO 100-8310 JAPAN	
HECK BOX	desirous of acqui Letters Patent(s) t  in any foreign	ring the enti hat may be g	presentatives and assigns (hereins re right, title and interest in and t ranted therefor in the United States	after designated as the Assignee) is to said invention and in and to any of America and	
	paid, the receipt of undersigned has transfer unto said America, its territ any and all Lette	of which is leading to the control of the control o	hereby acknowledged, and other g assigned and transferred, and by he full and exclusive right to the s dencies and possessions and the er which may be granted therefor in	(\$10.00) to the undersigned in hand good and valuable consideration, the these presents does sell, assign and aid invention in the United States of a tire right, title and interest in and to in the United States of America, its is designated, in any and all foreign	
	and to any and al term or terms for w			s and extensions thereof for the full	

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The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP 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.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date January 23, 2007.	Name of Inventor Aduo Takeshita (signature) Nobuo TAKESHITA	
Date Jamuary 23, 2007.	Name of Inventor Joshiya Matozaki (signature) Toshiya MATOZAKI	
Date January 24, 2007.	Name of Inventor Keiji Nakamura (signature) Keiji Nakamura	
Date January 24, 2007	Name of Inventor Mitoru YABE	_
Date,	Name of Inventor (signature)	_
Date,	Name of Inventor(signature)	_

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RECORDED: 02/08/2007