01-23-2003

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Form PTO-1595 RECO! 1-3-92 102345538 Attorney Docket No.: 81710.0244 To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies): Yoshifumi TANIMOTO MURATA KIKAI KABUSHIKI KAISHA 3 Minami Ochiai-cho, Kisshoin, Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No Minami-ku, Kyoto-shi, Kyoto, Japan Nature of conveyance: Assignment Execution Date: December 5, 2002 Additional name(s) & address(es) attached? ☐ Yes ☒ No Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) 10345902 A. Patent Application No.(s) Additional numbers attached? Yes ☑ No Name and address of party to whom correspondence concerning Total number of applications and patents involved: [1] document should be mailed: Anthony J. Orler, Esq. Total fee (37 CFR 3.41) \$40.00 HOGAN & HARTSON L.L.P. 500 South Grand Avenue, Suite 1900 ☑ Enclosed Los Angeles, CA 90071 Authorized to be charged to deposit account Deposit account number: 50-1314 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE Statement and signature. he foregoing is true and correct and any attached copy is a true copy of the original document. January 16, 2003 Date: Anthony J. Orler

OMB No. 0651-0011 (exp. 4/9)

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Washington, D.C. 20231

PATENT REEL: 013673 FRAME: 0845

ASSIGNMENT			
(1-8)	Name(s) of Inventor(s)	(1) (2) (3)	Yoshifumi Tanimoto (5) (6) (7)
		(4)	(8) In consideration of the good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to
(9)	Name of Assignee	(9)	Murata Kikai Kabushiki Kaisha
(10)	State of Incorporation of Assignee	(10)	Japan
(11)	Address of Assignee	(11)	of 3 Minami Ochiai-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto, Japan (hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as
(12)	Identification of Invention as Title, Case Number of Foreign Application Nun	ir (12)	for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.
(13)	Date(s) of Signing of Declaration	(13)	on December 5, 2002
	uing United States and fo	reign application	cute all papers neessary in connection with any original, reissue, divisional and ons for the aboveidentified invention and also to execute separate assignments signee may deem necessary or expedient.
declar possib	ed concerning this appli	cation or conti	ecute all papers necessary in connection with any interference which may be nuation or division thereof and to cooperate with the Assignee in every way ard with such interference.
conne			ecute all papers and documents and perform any act which may be necessary in ernational Convention for Protetion of Industrial Property or similar agreements.
United	 The undersigned d States patent to the Ass 		rform all affirmative acts which may be necessary to obtain a grant of a valid
said A	ts of the United States re assignee, as Assignee of	sulting from sai the entire inter	ze(s) and request(s) the Commissioner of Patents to issue any and all Letters id application or any division or divisions or continuing applications thereof to the est, and hereby coverants that he has (they have) full right to convey the entire y have) not executed any agreement in conflict herewith.
	6) The undersigned	hereby appoint	ts the persons associated with Customer Number: 000026021 26021
			rther identification which may be necessary or desirable in order to comply with emark Office for recordation of this document.
Date:	December 5, 2001	Signature of In	ventor 1 \ \CSHIFUMI \ TAMIMUTO
Date:		Signature of In	ventor 2
Date:		Signature of In	ventor 3
Date:		Signature of In	ventor 4
Date:		Signature of In	ventor 5

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PATENT REEL: 013673 FRAME: 0846

Date: Signature of Inventor 6_____