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Form PTO-1595 1-31-92

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

10225/101			
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.			
Name of conveying party(ies): Naoki IIDA and Masahiko KAWAGUCHI	2. Name and address of receiving party(ies):		
Additional name(s) of conveying party(ies) attached? ☐ yes 図no	(2a.) Name: Murata Manufacturing Co., Ltd. Address: 26-10 Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555. Japan		
10-16-02	<u>uapan</u>		
3. Name of Conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: October 9, 2002	NameAddress:		
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application, the execution	n date of the application is: October 16, 2002		
A. Patent Application No.(s)	B. Patent No.(s)		
Additional numbers atta	ached □ yes •□no		
Name and address of party to whom correspondence concerning document should be mailed: Name: Joseph R. Keating, Esq. Internal Address: KEATING & BENNETT LLP Street Address: 10400 Eaton Place, Suite 312 City: Fairfax State: VA ZIP 22030	7. Total fee (37 CFR 3.41):\$ 40.00 Enclosed		
18 2001 (1870) (1 000) (1 000) (2 000) C:808: E (40 00 10)	Authorized to be charged to credit card with Credit Card Payment Form (PTO-2038) Authorized to be charged to deposit account 8. Deposit account number: 50-1353		
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9. Statement and signature.			
To the best of my knowledge and belief, the foregoing information is true a	nd correct and any attached copy is a true copy of the original document.		
Joseph R. Keating, Reg. No. 37,368 Name of Person Signing Signat	October 16, 2002 ure Date		
Tot	al number of pages comprising cover sheet, attachments and document: 2		
	l		
Mail documents to be recorded with required cover sheet information to: Assistant Commissioner for Patents Box Assignment Washington, D.C. 20231			

PATENT REEL: 013391 FRAME: 0234

Attorney Docket No.: 36856.923

ASSIGNMENT (WORLDWIDE)

WHEREAS, We, Naoki IIDA and Masahiko KAWAGUCHI (hereinafter referred to as
ASSIGNOR), have invented and own a certain invention entitled DIRECTIONAL COUPLER
for which application for Letters Patent of the United States has been

 executed on even date herewith;		
 filed on	as Serial No	

WHEREAS, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyoshi, Kyoto-fu 617-8555 JAPAN (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to the said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefor through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Dated: October 9, 2002 Naoki IIDA

Dated: October 9 2002 Masahiko Kawaguchi Masahiko KAWAGUCHI

RECORDED: 10/16/2002

PATENT REEL: 013391 FRAME: 0235