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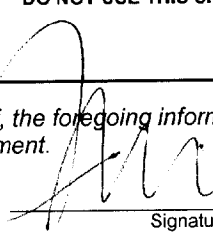


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P/1071-1001

# PATENTS RECORDATION COVER SHEET

To the Assistant Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Yutaka ISHIURA Hiromu TOKUDERA Kei MATSUTANI</p> <p>Type of Entity: Individual</p> <p>Additional names(s) of conveying party(ies) attached? <b>No</b></p>		<p>2. Name and Address of receiving party(ies):</p> <p>Murata Manufacturing Co., Ltd., Dept. A170, 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan</p> <p>Type of Entity: Foreign Corporation</p> <p>Additional name(s) &amp; address(es) attached? <b>No</b></p>	
<p>3. Nature of Conveyance:</p> <p>Assignment</p> <p>Execution Date: May 8, 2000</p>			
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p>			
<p>A. Application No.(s)</p> <p>09/538,838</p>		<p>B. Patent No.(s)</p>	
<p>Additional numbers attached? <b>No</b></p>			
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>OSTROLENK, FABER, GERB &amp; SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403</p>		<p>6. Total number of documents involved: <b>One</b></p>	
		<p>7. Total fee (37 CFR 3.41): \$ <b>40.00</b></p> <p>Enclosed as part of Check No. <b>94912</b></p> <p><small>In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.</small></p>	
<p><b>DO NOT USE THIS SPACE</b></p>			
<p>8. 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.</p> <p>James A. Finder  June 15, 2000</p> <p>Name of Person Signing Signature Date</p> <p>Total number of pages including cover sheet, attachments, and document: <b>2</b></p>			

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PATENT  
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PATENT APPLICATION ASSIGNMENT -  
SOLE OR JOINT INVENTORS  
EXECUTED OUTSIDE U.S.A.

OFGS FILE NO. P/1071-1001

WHEREAS, I (We), Yutaka ISHIURA, Hiromu TOKUDERA and Kei MATSUTANI as assignor(s), have invented certain improvements in DIELECTRIC WAVEGUIDE NONRECIPROCAL CIRCUIT DEVICE AND RADIO DEVICE USING SAME for which an application for United States Letters Patent has been executed by me (us) of even date herewith; and

WHEREAS, Murata Manufacturing Co., Ltd., Dept. A170, 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I (We), as assignor(s), hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for myself (ourselves) and my (our) legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

Date: 8 May 2000

Yutaka Ishiura

Yutaka ISHIURA

Date: 8 May 2000

Hiromu Tokudera

Hiromu TOKUDERA

Date: 8 May 2000

Kei Matsutani

Kei MATSUTANI

LEGALIZATION RECOMMENDED

00447671.1

RECORDED: 06/19/2000

PATENT  
REEL: 010869 FRAME: 0982