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	To the Assistant Commissioner of Patents and Trademarks	Please record the attached original document or copy thereof.	
	Name of conveying party(ies):	2. Name and Address of receiving party ies):	
	Masayuki ATOKAWA Nobuyoshi HONDA II.1.00	Murata Manufacturing Co., Ltd., Dept. A170, 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan	
	Type of Entity: Individual	Type of Entity: Foreign Corporation	
	Additional names(s) of conveying party(ies) attached? No	Additional name(s) & address(es) attached?	
	3. Nature of Conveyance:		
	Assignment		
	Execution Date: November 8, 1999		
	 Application number(s) or patent number(s): If this document is being filed together with a new application, the exe 	cution date of the application is:	
	A. Application No.(s)	B. Patent No.(s)	
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	5. Name and address of party to whom correspondence concerning document should be mailed:		
	5. Name and address of party to whom correspondence concerning document should be mailed: OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas	6. Total number of documents involved: One	
	 Additional number Name and address of party to whom correspondence concerning document should be mailed: OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403 	6. Total number of documents involved: One 7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed as part of Check No. \$ 7 9 9 In the event the actual fee is greater than the payment ::ubmitted 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.	
	 Additional number Name and address of party to whom correspondence concerning document should be mailed: OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403 	6. Total number of documents involved: One 7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed as part of Check No. \$ 7 9 9 In the event the actual fee is greater than the payment ::ubmitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge th a underpayment	
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PATENT REEL: 011289 FRAME: 0631

08-28-2000

1. Name of conveying party(ies): 2. Name and Address of receiving party(ies): Masayuki ATOKAWA Nobuyoshi HONDA Murata Manufacturing Co., Ltd., Dept. A170, 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan Type of Entity: Individual Type of Entity: Foreign Corporation Additional names(s) of conveying party(ies) attached? No Additional names(s) & address(es) attached? No 3. Nature of Conveyance: Additional name(s) & address(es) attached? No 3. Nature of Conveyance: Additional name(s) & address(es) attached? No 4. Application number(s) or patent number(s): If this document is berg files together with a new application, the execution date of the application is: B. Patent No.(s) 09/405,905 B. Patent No.(s) B. Patent No.(s) 09/405,905 6. Total number of documents involved: Orrespondence concerning document should be mailed: O OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americaas New York, New York 10036-8403 7. Total fee (37 CFR 3.41): \$ 40.00 Indversit the address of party to whom correspondence concerning document should be mailed: 5. Total number of the Americaas New York, New York 10036-8403 6. Total number of the conterning tocument should copy is a true copy of the original document. Name of Peoso Signing July 25, 2000 Date 8. To the best of my knowledge and belief, the for page including cover sheet, attachments, and document. Name of Peoso Signing	To the Assistant Commissioner of	Patents and Trademarks: P	lease record the attached original document or copy the
Nobuyoshi HONDA Dept. A170, 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan Type of Entity: Individual Additional names(s) of conveying partyl(es) attached? No 3. Nature of Conveyance: Additional names(s) & address(es) attached? No 3. Nature of Conveyance: Additional names(s) & address(es) attached? No 3. Nature of Conveyance: Additional names(s) & address(es) attached? No 3. Nature of Conveyance: Additional names(s) & address(es) attached? No 4. Application number(s) or patent number(s): If this document is being file together with a new application, the execution date of the application is: A. Application No.(s) B. Patent No.(s) 09/405,905 B. Patent No.(s) 09/405,905 6. Total number of documents involved: Orrespondence concerning document should be mailed: Or OSTROLENK, FABER, GERE & SOFPEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403 In the event the actual foe is grader than the payment submitted o indervently not enclosed or if any additional field cue is not paid, I Patent No. 15.0700. B. 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. James A. Finder July 25, 2000 Name of Person Signing Magnafure July 25, 2000	1. Name of conveying party(ies)	:	2. Name and Address of receiving party(ies):
Additional names(s) of conveying party(ies) attached? No Additional name(s) & address(es) attached? No 3. Nature of Conveyance: Other - Correction of erroneous Serial Number for Assignment recorded at Reel/Frame 010455/0410 Execution Date: November 8, 1999 4. 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: A. Application No.(s) B. Patent No.(s) 09/405,905 B. Patent No.(s) 5. Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of documents involved: Or 0STROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403 7. Total fee (37 CFR 3.41): \$ 40.00 In the event the actual fee is greater than the payment submitted o barget re undergay to begosit Account No. 15-0700. In the event the actual fee is authorized to charge the undergay to begosit Account No. 15-0700. DO NOT USE THIS SPACE 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. James A. Finder July 25, 2000 Date			Dept. A170, 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu
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Total number of pages including cover sheet, attachments, and document: Two	 5. Name and address of party to correspondence concerning de be mailed: OSTROLENK, FABER, GERE 1180 Avenue of the Ame New York, New York 100 8. To the best of my knowledge a copy is a true copy of the origin 	whom ocument should 3 & SOFFEN, LLP ericas 036-8403 DO NOT USE T and belief, the foregoing	 6. Total number of documents involved: 7. Total fee (37 CFR 3.41): \$ 40.0 Enclosed as part of Check No. In the event the actual fee is greater than the payment submitted inadvertently not enclosed or if any additional fee cue is not paraleted and Trademark Office is authorized to charge the under to Deposit Account No. 15-0700. HIS SPACE
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PATENT REEL: 011289 FRAME: 0632 PATENT APPLICATION ASSIGNMENT -SOLE OR JOINT INVENTORS EXECUTED OUTSIDE U.S.A.

WHEREAS, I (We), Masayuki ATOKAWA and Nobuyoshi HONDA as assignor(s), have invented certain improvements in RESONATOR, FILTER, DUPLEXER, AND COMMUNICATION APPARATUS 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, Naqaokakyo-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: November 8, 1999

Date: November 8, 1999

Masayuki Atokawa Masayuki ATOKAWA <u>Nofuyoshi Honda</u> Nobuyoshi HONDA

LEGALIZATION RECOMMENDED

00424936.1

RECORDED: 11/17/2000