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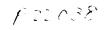
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

Additional name(s) & address(es) attached?				
ration, the execution date of the application is: B. Patent Number(s)				
6. Total number of applications and patents involved: 1				
7. Total fee (37 CFR 3.41): \$40.00				
Enclosed				
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8. Deposit account number: 18-0350 (Attach duplicate copy of this page if paying by deposit account.)				
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U8PTO Form 1595 [R&P]

PATENT REEL: 010993 FRAME: 0378



No legalization required

ASSIGNMENT

WHEREAS, the ASSIGNOR, comprising the following named inventor(s)

	Inventor(s)			
ASSIGNOR(s)/ INVENTOR(s)	1. Kengo Shiiba	2.	Munenori Fujimura	
	3. Hitoshi Uchi	4.	Shuichiro Yamaguchi	
INVENTOR(s)	5. Takayuki Takeuchi	6	Yasuhiko Horio	
	7. Hiroshi Kawano	8	Hiromi Tokunaga	
		NG, A	ECIPROCAL CIRCUIT DEVICE, ND MOBILE COMMUNICATION rs Patent of the United States	
ASSIGNEE	concurrently herewith; WHEREAS, the ASSIGNE	Œ		
(Full Name and address)	Matsushita Electric Industrial Co., Ltd.			
	1006, Oaza Kadoma, Kad	loma-s	hi, Osaka, 571-8501 Japan	
	is desirous of acquiring the entire		t in and to said invention and the	

NOW, THEREFORE, in consideration of the payment by ASSIGNEE to ASSIGNOR of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, intending to be legally bound, hereby sells, assigns and transfers to ASSIGNEE, its successors and assigns the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions and continuations thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto.

ASSIGNOR hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

R&P_I\MAT\7926U\$\AS\$NPFP DOC

PATENT REEL: 010993 FRAME: 0379 ASSIGNOR agrees it shall be legally bound, upon request of the ASSIGNEE or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the ASSIGNOR has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the ASSIGNEE, and to execute all instruments proper to carry out the intent of this instrument.

If the invention requires a biological deposit, ASSIGNOR also grants to ASSIGNEE such control over any deposit made by ASSIGNOR as may be necessary to the validity of the patent rights assigned herein.

ASSIGNOR authorizes ASSIGNOR's attorney to insert at the end hereof the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney docket or file designation for this application.

If the ASSIGNOR includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

IN WITNESS WHEREOF, this Assignment is executed on the day indicated below.

SIGNATURE

RECORDED: 07/24/2000

(Typed or Printed Name)	(Signature)	(Date)			
1. Kengo Shiiba	Kengo Shuka	July 6, 2000			
2. Munenori Fujimura	Minenor Figinara	July 6, 2000			
3. Hitoshi Uchi	Hitsefi Elchi	July 6, 2000			
4. Shuichiro Yamaguchi	Shuishiro Yamaguchi	July 6, 2000			
5. Takayuki Takeuchi	Fakayaki Fakeuch	July 6, 2000			
6. Yasuhiko Horio	Josepheko Horio	July 6, 2000			
7. Hiroshi Kawano	Herashi Kawana	July 6, 2000			
8. Hiromi Tokunaga	Kiromi Tokungga	July 6, 2000			
Application for United States Letters Patent					
Serial No. 09/522,233 Filed March 9, 2000,					
Attorney Docket No. MAT-7926US .					

PATENT REEL: 010993 FRAME: 0380