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Assignment		
☐ Security Agreement ☐ Change of Name		
Other		
B. Execution Date: 1, 2) December 1, 2003 and 3,4) December 2, 2003		
2002 12.0 5 1 2 2002		
_ , ,	1	C. Patent No.(s)
Additional numbers at	tached?	☐ Yes ⊠ No
	6.	Total number of applications and patents involved:
Name: James A. Oliff	7.	A. Total fee (37 CFR 3.41)\$ 40.00
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PATENT REEL: 014800 FRAME: 0022

ASSIGNMENT

		(1)	Shigeru MATSUMOTO	(5)		
(1-8) Insert		(2)	Kazuyoshi MINAMINAKA	(6)		
Name(s) of Invento	Name(s) of Inventor(s)	(3)	Susumu MURATA	(7)		
		(4)	Shin MANABE	(8)	·	
				• • • •	and other good and valuable considerations paid to to assign, and hereby does assign, transfer and set	
(9)	Insert Name of Assignee	(9)	BROTHER INDUSTRIES,	LTD.		
(10)	Insert Address of Assignee	(10)	15-1 Naeshiro-cho, Mizu	rho-ku, Nagoya-shi, A	Aichi-ken 467-8561, Japan	
of Invention such as Title, Case			provisional, non-provisional, d	livisional, continuation, ind reexamination certif	d in all applications for patent including any and all substitute, and reissue application(s), and all Letters icates that may be granted on the invention known as	
	Number, or Foreigr Application Numbe		(Attorney Docket No.	117765		
			for which the undersigned has	(have) executed an ap	plication for patent in the United States of America	
(12)	Insert Date of Signing of Application	(12)	on December 1, 20	03 and December :	2, 2003	
(13)	Alternative	(13)	U.S. application Serial Number			
Identification for filed applications			filed <u>December 15, 20</u>	003		
eissue	The undersigned	agree	e(s) to execute all papers nece		vith any application and any continuing, divisional or	

- any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict
- 6) The undersigned hereby grant(s) the firm of OLIFF & BERRIDGE the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this

in witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

RECORDED: 12/15/2003

Date	Dec. 1. 2003	Name of Inventor	Shigery Matsumoto	(SEAL)
Date	Huge years	Name of Inventor	Hagyyork & minaminetia	(SEAL)
Date	Dec. 2. 2003	Name of Inventor	Susume Murata	(SEAL)
Date	Dec. 2, 2003	Name of Inventor	Shin Manabe	(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of Inventor	Y	(SEAL)
Date		Name of Inventor		(SEAL)

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