

Form PTO-1595

08-23-2004



S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks: P	lease record the attached original documents or copy thereof.			
1. Name of conveying party(ies): TANAKA, Takeshi MIZUGUCHI, Nobuaki TODORI, Seijiro MITSUDOMI, Shinya	Name and address of receiving party(ies) Name: HITACHI, LTD.			
INA, Yoshihiko NAKAIGAWA, Syu	Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan			
Additional name(s) of conveying party(ies) attached? Yes No				
Nature of conveyance:				
☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other	Additional name(s) & address(es) attached? ☐ Yes ☒ No			
Execution Date: July 12, 2004				
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the A. Patent Application No.(s) 10/352,990 Filed January 29, 2003	execution date of the application is: B. Patent Registration No.(s)			
Additional number(s) att	I ached ☐ Yes ⊠ No			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved 1			
Name: Antonelli, Terry, Stout & Kraus, LLP	7. Total fee (37 CFR 3.41)\$ 40.00			
Internal Address:	Authorized to be charged to deposit account			
1300 North Seventeenth Street Suite 1800 Arlington, VA 22209	8. Deposit account number:			
USA	01-2135			
City: State: Zip:	(Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS SPACE				
9. Statement and signature. 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. William I. Solomon. Reg#28.565 Name of Person Signing Signature Date				
Total number of pages including cover sheet, attachments, and document: 2				
Mail documents to be recorded with required cover sheet information to:				

Commissioner of Patent & Trademarks, Box Assignments Washington, D.C. 20231

08/19/2004 MMEKONEN 00000059 10352990 01 FC:8021

PATENT REEL: 015692 FRAME: 0473

ASSIGNMENT

ATTY. DOCKET NO.: 648.42413X00

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

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	for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.				
\boxtimes	for which U.S. Application S	erial No. 10/352,990	for Letters Patent was filed in the U.S. January 29, 2003	S. Patent and Trademark Office on	
	for which an International Ap		as	, designating the United States.	
		HITACHI, LTD. 6, Kanda Surugadai Chiyoda-ku, Tokyo,			

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Antonelli, Terry, Stout, Kraus, LLP 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 document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

RECORDED: 08/18/2004

201	FULL NAME OF SOLE OR FIRST NAMED INVENTOR Takeshi TANAKA	inventor's signature Takashi Tanaka	_{дате} <u>July</u> 12, 2004
202	FULL NAME OF SECOND JOINT INVENTOR NOBUAKI MIZUGUCHI	nventor's signature Robuahi Mizuguchi	DATE 12, 2004
203	FULL NAME OF THIRD JOINT INVENTOR Seijiro TODORI	Seigiro Iodori	July 12, 2004
204	FULL NAME OF FOURTH IOINT INVENTOR Shinya MITSUDOMI	INVENTOR'S SIGNATURE	July 12, 2004
205	full name of fifth joint inventor Yoshihiko INA	inventor's signature	July 12, 2004
206	FULL NAME OF SIXTH JOINT INVENTOR SYU NAKAIGAWA	INVENTOR'S SIGNATURE Syn Rakaigawa	July 12, 2004
207	FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
208	FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT REEL: 015692 FRAME: 0474