MRD 3-18-99

Atty. Docket No.: 965-269p

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To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.	
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SHIMAZUTSU, Hiroaki; TSUMURA, Youichirou; HAYASHI, Kanji; TAKENO, Koichi	Name and address of receiving party(ies) Name: MITSUBISHI HEAVY INDUSTRIES, LTD.	
Additional name(s) of conveying party(ies) attached? Yes No	Internal Address:	
3. Nature of conveyance:	Street Address: 5-1, Marunouchi 2-chome, Chiyoda-ku	
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Execution Date: March 1, 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: March 1, 1999	
A. Patent Application No(s).	B. Patent No.(s).	
	thed? 🗌 Yes 🔀 No	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1(One) 7. Total fee (37 C.F.R. § 3.41): \$40.00	
Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP	Enclosed	
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City: FALLS CHURCH State: VA ZIP: 22040-0747	8. Deposit account number: 02-2448	
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To the best of my knowledge and belief, the foregoing information is t	rue and correct and any attacheficopy is a true copy of the original document	
TERRELL C. BIRCH 19,382 Name of Person Signing/Reg. No.	Signatur March 18, 1999 Date	
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PATENT

REEL: 9841 FRAME: 0530

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ATTORNEY DOCKET NO.	
965-269P	

ASSIGNMENT

nsert Name(s)				Filed March		
macri Manne (a)	WHEREAS,	Hiroaki SH	IMAZUTSU			
of Inventor(s)		Youichirou	TSUMURA			
		Kanji HAYA	SHI			_
		Koichi TA	KENO			<u> </u>
nsert Title of Invention		d as the undersigned) has	s (have) invented certain new and use	eful improvements in	1	
nsert Date	for which an application	on for Letters Patent of th	he United States of America has been	executed by the unc	dersign	.ed
of Signing of Application	on March 1	, 1999			; ar	nd
nsert Name of Assignee		Mitsubishi He	eavy Industries, Ltd.			
nsert Address of Assignee ➡	5-1, Mar	ınouchi 2-chom	ne, Chiyoda-ku, Tokyo	o, Japan		
CHECK BOX FAPPROPRIATE	acquiring the entire may be granted there in any and all fore NOW, THERE	right, title and interest in efor in the United States eign countries. FORE, in consideration o	d assigns (hereinafter designated as n and to said invention and in and to sof America and of the sum of Ten Dollars (\$10.00) ged, and other good and valuable con	to any Letters Paten	it(s) th in hai ersigno	nat nd

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for

which the same may be granted.

PATENT REEL: 9841 FRAME: 0531 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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

Date	March 1, 1999	_, Name of Inventor	Hiroaki Shimazutsu	
Date	March 1, 1999	, Name of Inventor	Hiroaki SHIMAZUTSU Hiroaki Shimazutou (signature) Youichirou TSUMURA (signature)	
Date	March 1, 1999		Kanji HAYASHI Lanju Hayashi (signature)	
Date :	March 1, 1999		Kochi Takene	
Date .			ROICNI TAKENO (signature)	
Date _		, Name of Inventor	(signature)	
		- · · · · · · · · · · · · · · · · · · ·	(signature)	_

PATENT REEL: 9841 FRAME: 0532