U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

	100989887 EET						
30	To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.						
	1. Name of conveying party(ies):	2. Name and address of receiving party(ies)?					
	Norio TAKEDA, Kiyonari HIRAMATSU and Kenji ISHIKURA	MITSUBISHI GAS CHEMICAL COMPANY, INC. 5-2, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8324, Japan					
13	Additional name(s) of conveying party(ies) attached? ☐ yes ☐ no						
<i>\$</i> ;	3. Nature of Conveyance:	S n					
\mathcal{O}	☑ Assignment ☐ Merger	Additional name(s) & address(es) attached?					
. '	☐ Security Agreement ☐ Change of Names	□ yes ☑ no ੁੱ⇔					
M	□ Other	25- Y-473X					
S	Execution Date: February 23, 1999	□ yes ☑ no ÿ a					
	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: February 23, 1999						
	A. Patent Application No.(s)	B. Patent No.(s)					
	Additional numbers attached? Yes No						
	5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and registration involved:					
	Robert J. Seas, Jr.	7. Total Fee (37 CFR 3.41): \$40.00					
	SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC	☑ Enclosed. Please charge any underpayment in					
	2100 Pennsylvania Avenue, N.W.	connection with this Assignment to Deposit Account No. 19-4880.					
	Suite 800 Washington, D.C. 20037-3213	☐ Authorized to be charged to Deposit Account					
	***asiningion, D.C. 20037-3213	8. Deposit Account No.					
		19-4880					

DO NOT WRITE IN THIS SPACE

9. Statement and Signature.

Form PTO-1595

1-31-92

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.

Reg. No. 21,092

March 8, 1999

Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

03/17/1999 JWATKINS 00000141 09264 01 FC:581

> **PATENT REEL: 009820 FRAME: 0560**

Assignment

Whereas, I/We, Norio Takeda, Kiyonari Hiramatsu and Kenji Ishikura	of
c/o Mitsubishi Gas Chemical Company Inc.,	
Tokyo Lab.,	
1-1, Nijiuku 6-chome,	
Katsushika-ku, Tokyo, 125-0051 Japan hereinafter called assignor(s), have invented certain improvements in	
METHOD OF MANUFACTURING A BISMUTH-SUBSTITUTED	
RARE-EARTH IRON GARNET SINGLE CRYSTAL FILM	
and everyted an application for Lattery Bota to at the 11 % 1 Co. 1.	

and executed an application for Letters Patent of the United States of America therefor on February 23, 1999; and

Whereas, MITSUBISHI GAS CHEMICAL COMPANY, INC. of 5-2, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-8324 Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We her	reby authorize and r	equest my attorr	neys SUGHRUE, MIC	ON, ZINN	, MACP	EAK	& SEAS of
2100 Pennsy	Ivania Avenue, N.W.,	Washington, D.C	C. 20037-3202 to inser	rt here in p	arenthe	eses (Application
number		, filed)	the filin	g date	and	application
	aid application when						
Date: F	ebruary 23, 1999 _{s/} _	noio	Takede				
Date: Fe	ebiruairy 23, 1999 s /_	Liyonar	i Hiramatsu				
Date: բչ	ebruary 23, 1999s/_	Kenji Kenj	Dahikura i Ishikura	14.1			
Date:	s/_				-13		
Date:	s/_						

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

8/92

RECORDED: 03/08/1999

PATENT REEL: 009820 FRAME: 0561