Director of the U.S. Patent and Trademark Office **Box Assignments**

12-27-2000

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

	563429							
1073-00	Attorney Docket No. 106845							
To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.								
1. A. Name of conveying party(ies):	2. A. Name and address of receiving party(ies):							
 Yasuki NAMIKI Masatoshi KOBAYASHI Akira KIDOGUCHI Hidenobu ITOH Masataka HIRAIDE Kunihiro IMADA Kenji INOKUCHI 	SUMITOMO METAL INDUSTRIES, LTD. 5-33, KITAHAMA, 4-CHOME, CHUO-KU OSAKA-SHI, OSAKA 541-0041 JAPAN							
B. Additional name(s) of conveying party(ies) attached ☐ Yes ☑ No	d?							
3. A. Nature of conveyance:	B. Additional name(s) & address(es) attached? ⊠Yes □ No							
⊠ Assignment	}							
☐ Security Agreement ☐ Change of Name								
Other	}							
Execution Date: 1) August 30, 2000; 2) September 2, 2000; 3) September 22, 2000; 4) September 22, 2000; 5) September 25, 2000; 6) September 14, 2000; 7) September 8, 2000.								
4. A. If this document is being filed together with a new a	application, the execution date of the application is:							
B. Patent Application No.(s) 09/623,753	C. Patent No.(s)							
Additional numbers	s attached?							
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1							
Name: James A. Oliff	7. A. Total fee (37 CFR 3.41)\$ 40.00							
DOMEST NON-SECTION TO THE PARTY OF THE PARTY	B. Enclosed (Check No. 112774)							
Address: OLIFF & BERRIDGE, FLC P.O. Box 19928 Alexandria, VA 22320	Credit any overpayment or charge any underpayment to deposit account number 15-0461.							
9. Statement and signature. To the best of my knowledge and belief, the foregoing ing the original documents	formation is true and correct and any attached copy is a true copy of							
James A. Oliff Registration No. 27,075	Date: October 13, 2000							
Thomas J. Pardini Registration No. 30,411 Total number of pages including cover sheet, attachments, and document: 3								

PATENT REEL: 011373 FRAME: 0761

ADDITIONAL ASSIGNEES

2)	IDEMITSU KOSAN CO., LTD. 1-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-8321 JAPAN
2)	
3)	NIPPON STEEL CORPORATION 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8071 JAPAN
4)	CHIYODA CORPORATION 12-1, Tsurumichuo 2-chome, Tsurumi-ku, Yokohama-shi, Kanagawa 230-8601 JAPAN
5)	NKK CORPORATION
	1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202 JAPAN
6)	MITSUI ENGINEERING & SHIPBUILDING CO., LTD. 6-4, Tsukiji 5-chome, Chou-ku, Tokyo 104-8439 JAPAN
7)	MITSUBISHI HEAVY INDUSTRIES, LTD. 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8315 JAPAN
8)	JAPAN ENERGY CORPORATION 10-1, Toranomon 2-chome, Minato-ku, Tokyo 105-8407 JAPAN
9)	SUMITOMO METAL MINING CO., LTD. 11-3, Shimbashi 5-chome, Minato-ku, Tokyo 105-0004 JAPAN
10)	ASAHI KASEI KOGYO KABUSHIKI KAISHA 2-6, Dojimahama 1-chome, Kita-ku, Osaka-shi, Osaka 530-8205 JAPAN
11)	SUMITOMO COAL MINING CO., LTD. 20-4, Nishi-shimbashi 3-chome, Minato-ku, Tokyo 105-8425 JAPAN
12)	THE JAPAN STEEL WORKS, LTD. 1-2, Yurakucho 1-chome, Chiyoda-ku, Tokyo 100-0006 JAPAN
13)	YOKOGAWA ELECTRIC CORPORATION 9-32, Nakacho 2-chome, Musashino-shi, Tokyo 180-8750 JAPAN

PATENT REEL: 011373 FRAME: 0762

ASSIGNMENT

		(1)	Yasuki N	AMIKI	(5)	Masataka HIRAIDE		
(1-8)	Insert	(2)	Masatosh	i KOBAYASHI	(6) Kunihiro IMADA			
• /	Name(s) of Inventor(s)	(3)	Akira KI	DOGUCHI	(7)	Kenji INOKUCHI		
		(4)	Hidenoby	ITOH	(8)			
			In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to					
(9)	Insert Name of Assignee	(9)	(9) SUMITOMO METAL INDUSTRIES, LTD.					
(10)	Insert Address of Assignee	(10)	5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan					
			* SEE ATTACHED FOR ADDITIONAL ASSIGNEES					
		the en inven divisi	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as					
(11)	Insert	(11)	метно	D OF ESTIMATING I	REACTION PR	ODUCT IN COAL LIQUEFYING REACTION		
	Identification such as Title, Case							
	Number, or Foreign Application Number	(Atto	rney Docke	t No. 106845)		
		for w		dersigned has (have) ex		ication for patent in the United States of America		
(12)	Insert Date of Signing of Application	(12)	on					
(13)	Alternative	(13)	U.S. appl	ication Serial Number	09/623	,753		
	Identification for filed applications	filed	Sept	tember 8, 200	0			
applicate any app the Ass claims of reexam from sainterest assignment identification.	ions and patents as the Assignation or continuation or dignee in every way possible 3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree in a grant of a valid Unity of a provision of the said undersigned authors of a valid Unity of a provision of the said therein assigned, and that he hent is binding on him and he is ach undersigned here is action that may be necessary thin of this document.	gnee ma is to exe ivision to in obtain is to exe onal Co is to per ited Stat prizes ar Assigne has not its heirs, by grant y or desi	y deem nec cute all pap thereof, or a ning eviden cute all pap nvention fo form all aff es patent to d requests e, as Assign executed, a successors s the firm of rable in ord	ers necessary in conne- iny patent or reissue ap- ice and going forward vi- iers and documents and r Protection of Industri- irmative acts which may the Assignee. The Director of Patents hee of the entire interes and will not execute, and assigns and legal repr f OLIFF & BERRIDGE, ler to comply with the	ction with any plication based with such interference in perform any a seal Property or say be necessary to issue any ansat, and covenant agreements in esentatives. PLC the power rules of the Uniter the property of the Uniter the Uniter the Property of the Uniter the Un	similar agreements. to obtain, maintain or confirm by reissue or d all Letters Patents of the United States resulting ts that he has full right to convey the entire in conflict herewith, and agrees that this to insert on this assignment any further ited States Patent and Trademark Office for		
record	In witness whereof, exec	uted by	the unders	igned on the date(s) o	pposite the un	dersigned name(s).		
D. · ·	August 30	20		Inventor Signature	Yasuki	Namiki (Yasuki NAMIKI) (SEAL) osh Koboyashi KOBAYASHI) (SEAL)		
Date	Trongers >		000	Inventor Signature	Masat	osh Kotoyashi KOBAYASHI) (SEAL)		
Date	September 2		000	Inventor Signature	alin n	COGNEW(AKITA KIDUGUCHI) (SEAL)		
Date	C-to-b 22		000	Signature Hide		(Hidenobu ITOH) (SEAL)		
Date	Contemper 25		000	Inventor Signature	One west to	(Masataka HIRAIDE) (SEAL)		
Date	Sentonber 14	. 20	000	Itom Signature	Kunikir	a (Maca (Kunihiro IMADA) (SEAL)		
Date	2 estentian 8		000	Inventor Signature	Kenjil	nakuchi (Kenji INOKUCHI) (SEAL)		
Date	Square C			Inventor Signature		(SEAL)		
Date		nrafarah	ly be signed	t before: (a) a Notary I	ublic if within	the U.S.A. (b) a U.S. Consul if outside the U.S.A.		
If ne	This assignment should ither, then it should be signe	preserati d before ආ ආ එ	at least two	witnesses who also si	ign here: Kazu	hiro Isogai		
Date	Oct. 5, 2	12/26	,	Witness Kazuhino +sogai Witness 2011' Hazeyan				
Date	$U(c_1, 3) \stackrel{\sim}{\sim}$	IL INC				DATENT		

RECORDED: 10/13/2000

REEL: 011373 FRAME: 0763