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		gnments ton, D.C. 20231	AUG200	101852136			
				Attorney Docket No. 109816			
	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 parties: Tomoyuki OGURA Akira NUMATA Hideki UENO Yoshihide MASUZAWA Toshiro MIYAKE Yoichi INOUE Norihiko MIMORI Shinji TAKII Additional name(s) of conveying party(ies) attached?	NIS: 7-1,	ne and address of receiving party: SAN CHEMICAL INDUSTRIES, LTD. KANDANISHIKI-CHO 3-CHOME, YODA-KU, TOKYO 101-0054, JAPAN			
3.	Α.	☐ Ycs ☑ No Nature of conveyance:	B. Add	itional name(s) & address(es) attached? ☐ Yes ☒ No			
	\boxtimes	Assignment					
		Security Agreement					
		Other					
	В.	Execution Date: August 1, 2001					
4.	A. If this document is being filed together with a new application, the execution date of the application is: B. Patent Application No. 09/868 061						
5.	Nan	ne and address of party to whom correspondence cerning document should be mailed:		ther of applications and patents involved: 1			
	N:	nme: James A. Oliff	7. A. Tota	al fee (37 CFR 3.41)\$ 40.00			
8/15		1 MKAYPAGH 00000040 09868061	B. Encl	osed (Check No. <u>121762</u>)			
2 51	1:581 A	ddress: OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, VA 22320	8. Credit an deposit a	y overpayment or charge any underpayment to ecount number 15-0461.			
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 the original document. Date: August 13, 2001							
	James A. Oliff Registration No. 27,075 Thomas J. Pardini Registration No. 30,411 Total number of pages including cover sheet, attachments, and document: 3						

PATENT REEL: 012165 FRAME: 0713

ASSIGNMENT

(1-8)	Insert Name(s)	(1) Tomoyuki OGURA	(5) Toshiro MIYAKE			
	of Inventor(s)	(2) Akira NUMATA	(6) Yoichi INOUE	· · · · · · · · · · · · · · · · · · ·		
		(3) Hideki UENO	(7) Norihiko MIMORI	and		
		(4) Yoshihide MASUZAWA	(8) Shinji TAKII			
			n of the sum of one dollar (\$1.0			
			I to each of the undersigned, each	undersigned agrees to		
(O) I-	No. of Assissa	(9) Nissan Chemical Indu	ign, transfer and set over to			
, ,	sert Name of Assignee nsert Address of	(-/	o 3-chome, Chiyoda-ku, Tokyo 10	1-0054 Japan		
(- , ·		(10) 1-1, Kandanishiki-chi	o-chome, omyoda-ku, lokyo 10	1-0004, 9apan		
А	ssignee	(harainaftar designated as t	the Assignee) and Assignee's heirs,	encresors assigns and		
		·	entire right, title and interest for	8		
		_ ·	U.S.C. § 100, in the invention, and			
			all provisional, non-provisional, o			
			lication(s), and all Letters Patent,			
		reexamination certificates t	hat may be granted on the inventi-	on known as		
(11) I:	nsert Identification,	(11)				
s	uch as Title, Case Number					
0	r Foreign Application					
	Jumber	(Attorney Docket No.	109816)		
			nas (have) executed an application	for patent in the United		
		States of America on even				
(12) I	nsert Date of Signing of	(12) on August 1,	2001			
Α	pplication		00/969 061			
(13) A	Iternative Identification	(13) U.S. application Seria	d Number09/868,061			
` fo	or filed applications	filed <u>August 1</u>	3, 2001			
1)	Each undersigned agree	s to execute all papers necess	ary in connection with any applica	tion and any continuing,		
div	inional or raiseus application	ns for the invention, and an	y patent(s) issuing thereon, and s	uso to execute separate		
ass	والمناب	anab applications and natent	s as the Assignee may deem necess	ary.		
2)	Each undersigned agre	es to execute all papers nece	essary in connection with any inter-	issue application based		
dec	lared concerning any applic	ation or continuation or div	ision thereof, or any patent or re	ning evidence and going		
the	reon, for the invention, and	to cooperate with the Assign	ee in every way possible in obtain			
	ward with such interference.	t11 manage and d	ocuments and perform any act wh	ich may be necessary in		
3)	Each undersigned agree	es to execute an papers and o	ocuments and perform any designation of Industrial	rial Property or similar		
	nnection with claims or prov	isions of the international C	5111011011011011	a.		
	reements.	o to perform all affirmative a	ects which may be necessary to obt	ain, maintain or confirm		
4)	Each undersigned agree	rant of a valid United States	patent to the Assignee.	The state of the		
by	reissue or reexamination a g	porizes and requests the Dire	ector of Patents to issue any and a Assignee as Assignee of the entire	Il Letters Patents of the		
5	Each undersigned add.	aid application(s) to the said	etor of Patents to issue any and a Assignee, as Assignee of the entire signed, and that he has not execut	and and will not execute.		
Ur	the bee full right to convey	the entire interest herein as	signed, and that he has not execut	ois heirs successors, and		
United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, united States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, united States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, united States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and will not executed, and will not executed that he has full right to convey the entire interest herein assignment is binding on him and his heirs, successors any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors any agreements in conflict herewith.						
	and local representativ	es.		neart on this assignment		
6	Each undersigned here	by grants the firm of OLLFF	& BERRIDGE, PLC the power of roble in order to comply with the runt.	iles of the United States		
an	y further identification that	may be necessary or doors				
In	n witness whereof, executed	by the undersigned on the	date(s) opposite the undersigned his gape ilitie Wilmon	(SEAL)		
Date	August 1,2001 In	nventor Signature	3 chi	(SEAL)		
Date	August 1,2001 I	nventor Signature	· Ki kan Wimosi	(SEAL)		
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41	IIC A If noither then It sno	uld be signed borser -				
Da	te	Witness	wo witnesses who also sign here.			
Da	te	Witness				

PATENT REEL: 012165 FRAME: 0714

ASSIGNMENT

(1-8) Insert Name(s)	(1) Tomoyuki OGURA	(5) Toshiro MIYAKE				
of Inventor(s)	(2) Akira NUMATA	(6) Yoichi INOUE				
	(3) Hideki UENO	(7) Norihiko MIMORI	and			
	(4) Yoshihide MASUZ	ZAWA (8) Shinji TAKII				
		•	, .			
		ration of the sum of one dollar (\$1.00)	9			
		n paid to each of the undersigned, each	undersigned agrees to			
(O) I (A) I (A) (CA)		es assign, transfer and set over to				
(9) Insert Name of Assignee	(9) Nissan Chemical	ki-cho 3-chome, Chiyoda-ku, Tokyo 101	0054 Tonon			
(10) Insert Address of	(10) <u>1-1, Kandanishii</u>	ki-cho 3-chome, Cmyoda-ku, 10kyo 101	-0054, <u>Japan</u>			
Assignee	(harainaftar dasignata	d as the Assignee) and Assignee's heirs, s	ulgangary aggirns and			
		the entire right, title and interest for				
	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	substitute, and reissue application(s), and all Letters Patent, extensions, reissues and				
	reexamination certific	ates that may be granted on the invention	ı known as			
(11) Insert Identification,	(11)					
such as Title, Case Number						
or Foreign Application						
Number	(Attorney Docke)			
		gned has (have) executed an application for	or patent in the United			
	States of America on e					
(12) Insert Date of Signing of	(12) on August	1, 2001				
Application	GOVERN TO THE STATE OF THE STAT	Serial Number09/868,061				
(13) Alternative Identification	(13) U.S. application	Serial Number				
for filed applications	filedAugus	t 13, 2001 eccessary in connection with any application	on and any continuing,			
1) Each undersigned agree	es to execute an papers in	id any patent(s) issuing thereon, and als	so to execute separate			
thereon for the invention, and	to cooperate with the A	assignce in every way possible in obtaining	ng evidence and going			
forward with such interference.		1 1 and nonform any act which	h may be necessary in			
 Each undersigned agre 	es to execute all papers	and documents and perform any act whic	al Property or similar			
connection with claims or prov	visions of the Internation	nai Convention for Proteotism				
agreements.	es to perform all affirmative acts which may be necessary to obtain, maintain or confirm					
4) Each undersigned agre	es to perform an annima	ates patent to the Assignee.	D. tomto of the			
by reissue or reexamination ag	grant of a valid United States patent to the Assignee. grant of a valid United States patent to the Assignee any and all Letters Patents of the horizes and requests the Director of Patents to issue any and all Letters Patents of the horizes and requests the Director of Patents to issue any and all Letters Patents of the horizes and covenants are direction(e) to the said Assignee, as Assignee of the entire interest, and covenants					
5) Each undersigned aud	horizes and requests the Director of Patents to issue any and an interest, and covenants aid application(s) to the said Assignee, as Assignee of the entire interest, and covenants to the time thereof the said assigned, and that he has not executed, and will not execute, the entire interest herein assigned, and that he has not executed, and will not execute, and agrees that this assignment is binding on him and his heirs, successors, and					
United States resulting from a	the entire interest here	in assigned, and that he has not executed	s heirs, successors, and			
ner continct ner	ewith and agrees					
11 1 2 2000 (0.00 t 211)	JAS		cart on line assisting			
6) Each undersigned here	eby grants the firm of Ol	LIFF & BERRIDGE, PLC the power of his estrable in order to comply with the rule cument.	es of the United States			
any further identification that	t may be necessary or					
			(SEAL)			
Date	III 4 CTI CTI					
Date	arably be signed before: ((a) a Notary Public if within the U.S.A. (b)	,, a C.S. Co			
This assignment should present the state of	ould be signed before at l	(a) a Notary Public It with the least two witnesses who also sign here:				
the U.S.A. II neither, then it of	Witness	least two witnesses who also sign here.				
Date	Witness					
Date						

RECORDED: 08/13/2001

PATENT REEL: 012165 FRAME: 0715