502096513 10/16/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kazunori MORI	09/06/2012
Satoru NARIZUKA	09/06/2012
Fumihiro AMEMIYA	09/04/2012
Masaki FUJIWARA	09/04/2012

RECEIVING PARTY DATA

Name:	Central Glass Company, Limited
Street Address:	5253, Oaza Okiube
City:	Ube-shi, Yamaguchi
State/Country:	JAPAN
Postal Code:	755-0001

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13565259

CORRESPONDENCE DATA

Fax Number: 2026288844

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202-624-2500

Email: tyhaynes@crowell.com
Correspondent Name: Crowell & Moring LLP

Address Line 1: 1001 Pennsylvania Avenue, N.W.

Address Line 4: Washington, DISTRICT OF COLUMBIA 20004

ATTORNEY DOCKET NUMBER:	038788.64822US
NAME OF SUBMITTER:	Joseph D. Evans, Reg. No. 26,269

Total Attachments: 6

source=64822US_Assignment#page1.tif

PATENT REEL: 029138 FRAME: 0794 P \$40.00 13565259

source=64822US_Assignment#page2.tif source=64822US_Assignment#page3.tif source=64822US_Assignment#page4.tif source=64822US_Assignment#page5.tif source=64822US_Assignment#page6.tif

> PATENT REEL: 029138 FRAME: 0795

U.S., Rights - Sole or Joint Attorney Docket No.: 038788.64822US

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

Central Glass Company, Limited 5253, Oaza Oldube Ube-shi, Yamaguchi Japan 755-0001

(hereinaster ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his/her invention relating to:

FLUORINE-CONTAINING SULFONATE, FLUORINE-CONTAINING SULFONATE RESIN, RESIST COMPOSITION AND PATTERN FORMATION METHOD

	A A STATE OF SELLING THE BOOK OF THE STATE O	W 20 F 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1
as set forth in his/her	United States Patent Application (check one	s):
execu	ited concurrently herewith, ited on, ication No.13/565,259, filed <u>August 2, 20</u> International Application, No.:	<u>12,</u> , filed,
thereof and in and to application or for said enjoyed by said ASS term or terms for which	nited States Patent Application including a pany and all Letters Patent of the United of invention, including any and all reissues IGNEE, its successors, legal representative ich any and all such Letters Patent may be anjoyed by the undersigned had this Assignment	States which may issue on any such or extensions thereof, to be held and es and assigns to the full end of the granted as fully and entirely as would
Each of the undersign Office to issue any accordance herewith;	ned hereby authorizes and requests the Direct and all such Letters Patent to said ASSI	otor of the U.S. Patent and Trademark GNEE, its successors or assigns in
sell and assign the in	ned warrants and covenants that he/she hanterests herein sold and assigned and that let or instrument in conflict herewith;	s the full and unencumbered right to he/she has not executed and will not
its successors, legal invention or Patent apoaths, testify in any leby said ASSIGNEE, is said application inclumay be granted the successors, or assigns	ned further covenants and agrees he/she w representatives or assigns all information pplication and that he/she will execute and egal proceedings and perform all other lawf its successors, legal representatives or assig ding divisions and continuations thereof an erefor or thereon, including reissues or as sor to assist said ASSIGNEE, its successor or enforcing Letters Patent of the United Star	known to him/her relating to said deliver any papers, make all rightful ful acts deemed necessary or desirable and to perfect title to said invention, to ad to any and all Letters Patent which extensions, in said ASSIGNEE, its ars, legal representatives or assigns in
thereof, the power to	ned hereby grants the firm of CROWELI insert in this Assignment any further iden with the rules of the U.S. Patent and Trace	tification which may be necessary or lemark Office for recordation of this
Signature:	Kazunori No	vi 09/06/2012 DATE
Inventor one:	MOM HORIZAN	221.333
	× 1 00	

PATENT

REEL: 029138 FRAME: 0796

ASSIGNMENT - U.S. Rights Attorney Docket No. 038788.64822US

Signature:		
Inventor two:	Satoru NARIZUKA	DATE
Signature:		
Inventor three:	Fumihiro AMEMIYA	DATE
Ciamatana.		
Signature:		***************************************
Inventor four:	Masaki FUЛWARA	DATE
Signature:		

U.S., Rights - Sole or Joint Attorney Docket No.: 038788,64822US

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

Central Glass Company, Limited 5253, Oaza Okiube Ube-shi, Yamaguchi Japan 755-0001

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his/her invention relating to:

FLUORINE-CONTAINING SULFONATE, FLUORINE-CONTAINING SULFONATE RESIN, RESIST COMPOSITION AND PATTERN FORMATION METHOD

as set forth in h	is/her United States	Patent Application (check one):	
	executed concurrer executed on	The state of the s	,
thereof and in a application or f enjoyed by said term or terms for	and to any and all or said invention, in ASSIGNEE, its sor which any and al	atent Application including any and all divisions or Letters Patent of the United States which may issue accluding any and all reissues or extensions thereof, a uccessors, legal representatives and assigns to the f I such Letters Patent may be granted as fully and ent undersigned had this Assignment not been made;	e on any such to be held and full end of the
	any and all such	thorizes and requests the Director of the U.S. Patent a Letters Patent to said ASSIGNEE, its successors	
sell and assign	the interests herein	and covenants that he/she has the full and unencum a sold and assigned and that he/she has not execute at in conflict herewith;	
its successors, invention or Pa oaths, testify in by said ASSIGI said application may be grante successors, or a	legal representative tent application and any legal proceedin NEE, its successors, including divisions d therefor or ther assigns or to assist s	es or assigns all information known to him/her real that he/she will execute and deliver any papers, mangs and perform all other lawful acts deemed necessar, legal representatives or assigns to perfect title to sais and continuations thereof and to any and all Letters eon, including reissues or extensions, in said Assid ASSIGNEE, its successors, legal representative etters Patent of the United States for said invention;	elating to said alke all rightful ry or desirable d invention, to s Patent which SSIGNEE, its
thereof, the pov	ver to insert in this	rants the firm of CROWELL & MORING LLP, Assignment any further identification which may be of the U.S. Patent and Trademark Office for reco	e necessary or
Signature: Inventor one:		Kazunori MORI	DATE

ASSIGNMENT – U.S. Rights Attorney Docket No. 038788.64822US

	11 2	Attorney Docket No. 038788.64822US	
Signature: Inventor two:	Satoru Marizuka Satoru NARIZUKA	09/06/20/2 DATE	
Signature: Inventor three:	Fumihiro AMEMIYA	DATE	
Signature:		~~~~	
Inventor four:	Masaki FUJIWARA	DATE	
Signature;			

U.S., Kights – Sole or Joint Attorney Docket No.: 038788.64822US

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

Central Glass Company, Limited 5253, Oaza Okiube Ube-shi, Yamaguchi Japan 755-0001

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his/her invention relating to:

FLUORINE-CONTAINING SULFONATE, FLUORINE-CONTAINING SULFONATE RESIN, RESIST COMPOSITION AND PATTERN FORMATION METHOD

•••••	~ · · · · · · · · · · · · · · · · · · ·	
as set forth in his/her United States	Patent Application (check one):	
executed concurrent executed on Application No.13/PCT International A	tly herewith, 565,259, filed August 2, 2012, Application, No.:, filed	
thereof and in and to any and all I application or for said invention, in enjoyed by said ASSIGNEE, its st term or terms for which any and all	atent Application including any and all divisions or concetters Patent of the United States which may issue outling any and all reissues or extensions thereof, to accessors, legal representatives and assigns to the full such Letters Patent may be granted as fully and entire undersigned had this Assignment not been made;	on any such be held and end of the
	norizes and requests the Director of the U.S. Patent and Letters Patent to said ASSIGNEE, its successors or	
	and covenants that he/she has the full and unencumbe sold and assigned and that he/she has not executed a t in conflict herewith;	
its successors, legal representative invention or Patent application and oaths, testify in any legal proceeding by said ASSIGNEE, its successors, said application including divisions may be granted therefor or there successors, or assigns or to assist so	venants and agrees he/she will communicate to said Ass or assigns all information known to him/her related that he/she will execute and deliver any papers, make gs and perform all other lawful acts deemed necessary legal representatives or assigns to perfect title to said it and continuations thereof and to any and all Letters Patent of the United States for said invention;	ing to said all rightful or desirable nvention, to atent which IGNEE, its
thereof, the power to insert in this.	ants the firm of CROWELL & MORING LLP, or Assignment any further identification which may be a of the U.S. Patent and Trademark Office for records	ecessary or
Signature: Inventor one:	Kazunori MORI	DATE

ASSIGNMENT – U.S. Rights Attorney Docket No. 038788.64822US

Signature: Inventor two:	Satoru NARIZUKA	DATE
Signature: Inventor three:	Munihiro Ameniya Fumihiro AMEMIYA	9/4/20/2 DATE
anventor three;	Pullimito Algredyll (A. 7	DATE
Signature:	Masaki Trjeware	9/4/2012
Inventor four:	Masaki FUJIWARA	DATE
		
Signature:		

RECORDED: 10/16/2012