502118222 11/06/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Prakash K. Mirchandani	01/21/2008
Alfred J. Mosco	01/18/2008
Eric W. Olsen	01/21/2008
Steven G. Caldwell	01/18/2008

RECEIVING PARTY DATA

Name:	TDY Industries, Inc.
Street Address:	1000 Six PPG Place
City:	Pittsburgh
State/Country:	PENNSYLVANIA
Postal Code:	15222

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13632178

CORRESPONDENCE DATA

Fax Number: 4123943010

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

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Address Line 1: 1000 Six PPG Place

Address Line 4: Pittsburgh, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER:	TMP-2106CON2

NAME OF SUBMITTER: Patrick J. Viccaro, Reg. No. 27842

Total Attachments: 4

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PATENT REEL: 029245 FRAME: 0168 \$40.00 13632

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Attorney's Docket No. TMP-2106	PATENT	
Fr Fr	or: ☑ U.S. and/or ☑ Foreign Rights or: ☑ U.S. Application or ☐ U.S. Provisional Application or: ☐ U.S. Patent or: ☐ PCT Application y: Multiple Inventors	
ASSIGNMENT OF INVENT	TON (MULTIPLE INVENTORS)	
In consideration of the payment by ASSIGNEE receipt of which is hereby acknowledged, and for or	E to ASSIGNOR of the sum of One D ther good and valuable consideration,	ollar (\$1.00), the
ASSIGNORS (Inventors):	·	
Prakash K. Mirchandani	11323 Pampass Pass	
(type or print name of inventors)	Houston, TX 77095 Address	US
(7)	Audress	Nationality
	10130 Eden Valley Drive	
Alfred J. Mosco	Spring, TX 77379	US
(type or print name of inventors)	Address	Nationality
	14726 Harvest Chase Ct.	
Eric W. Olsen	Cypress, TX 77429	US
(type or print name of inventors)	Address	Nationality
	112 Countryside Drive	,
Steven G. Caldwell	Hendersonville, TN 37075	US
(type or print name of inventors)	Address	Nationality
hereby sells, assigns and transfers to		
ASSIGNEE:		
TDY Industries, Inc.	1000 Six PPG Place	
(type or print name of ASSIGNEE)	Address	
(a California corporation) Nationality	Pittsburgh, PA 15222 USA	
and the successors, assigns and legal representative	s of the ASSIGNEE	
$oxed{\boxtimes}$ the entire right, title and interest		
and in all foreign countries, including improvements which are disclo	g all rights to claim priority, in and to ar osed in the invention entitled:	ny and all

Articles Having Improved Resistance to Thermal Cracking

PATENT REEL: 029245 FRAME: 0169

(Assignment of Invention-Multiple Inventors 1)

		
and which is found in U.S. appli	ication no.: 11/924,273 filed on _	October 25, 2007
and any legal equivalent thereof in a foreig to, all Letters Patent to be obtained for said division, renewal, or substitute thereof, and	d invention by the above application	or any continuation
ASSIGNOR hereby covenants that no assig be made or entered into which would conflict wit	nment, sale, agreement or encumbra h this assignment;	ance has been or will
ASSIGNOR further covenants that ASSIGN pertinent facts and documents relating to said in may be known and accessible to ASSIGNOR ar or proceeding related thereto and will prom representatives any and all papers, instruments and enforce said application, said invention and may be necessary or desirable to carry out the procession of the process of th	nvention and said Letters Patent and nd will testify as to the same in any in nptly execute and deliver to ASSI or affidavits required to apply for, ob I said Letters Patent and said equiv	legal equivalents as nterference, litigation IGNEE or its legal
IN WITNESS WHEREOF, We have hereunto	set hand and seal on the date(s) inc	dicated below:
WARNING: The date of signing must be the same as the da	ate of execution of the application, if item (a) w	as checked above.
Prakash K. Mirchandani		
(type name of Inventor)	Signature of INVENTOR	Date
Alfred J. Mosco	allah mores	1-18-2018
(type name of Inventor)	Signature of IMVENTOR	Doto

Signature of INVENTOR

Signature of INVENTOR

Signature of INVENTOR

Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

Eric W. Olsen (type name of Inventor)

Steven G. Caldwell (type name of Inventor)

(Assignment of Invention-Multiple Inventors [16-3.2]-page 2)

Date

Date

Date

	and which is for	und in U.S. applicati	on no.: <u>11/924,27</u>	B filed on _Oo	ctober 25, 2007 ;
io, all Le	iters ratent to be i	ereof in a foreign c obtained for said in ite thereof, and as t	vention by the abo	we application a	r any annimum i
ASSIGNO be made or e	OR hereby covenar ntered into which w	nts that no assignmerould conflict with th	ent, sale, agreemei is assignment;	nt or encumbrand	ce has been or will
may be know or proceedin representative and enforce s	n and documents re n and accessible to g related thereto es any and all pape said application, sai	nts that ASSIGNEE elating to said inverto ASSIGNOR and ward will promptly ers, instruments or a id invention and said carry out the purportion.	ition and said Lette ill testify as to the execute and de affidavits required to id Letters Patent a	ers Patent and le same in any inte liver to ASSIG	gal equivalents as rference, litigation NEE or its legal
IN WITNE	SS WHEREOF, W	e have hereunto se	hand and seal on	the date(s) indica	ated below:
		the same as the date of			
Prakash K. Miro (type name of Ir			Signature of INV	MVIL ENTOR	1/21/08 Date
Alfred J. Mosco (type name of In	ventor)				
	ventor)		Signature of INV	ENTOR	Date
Eric W. Olsen (type name of In	ventor)		min. a	<u> </u>	1-21-08
(Gpc name of m	ventor)		Signature of INV	ENTOR	Date
Steven G. Caldw	<u>/ell</u>				

Notarization or Legalization Page Added.

Signature of INVENTOR

(type name of Inventor)

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention-Multiple Inventors [16-3.2]-page 2)

Date

and which is found in U.S. application	on no.: <u>11/924,273</u> filed on _	October 25, 2007 ;
and any legal equivalent thereof in a foreign of to, all Letters Patent to be obtained for said in division, renewal, or substitute thereof, and as to	Wention by the above application	
ASSIGNOR hereby covenants that no assignment be made or entered into which would conflict with the	ent, sale, agreement or encumbra is assignment;	ance has been or will
ASSIGNOR further covenants that ASSIGNEE pertinent facts and documents relating to said inventing to said inventing to said inventing to said inventing the said invention and said invention and said enforce said application, said invention and said invention a	ntion and said Letters Patent and vill testify as to the same in any in execute and deliver to ASSI affidavits required to apply for, ob id Letters Patent and said equiva- poses thereof.	legal equivalents as nterference, litigation IGNEE or its legal Itain, maintain, issue alents thereof which
WARNING: The date of signing must be the same as the date of	f execution of the application, if item (a) w	as checked above.
Prakash K. Mirchandani		
(type name of Inventor)	Signature of INVENTOR	Date
Alfred J. Mosco		
(type name of Inventor)	Signature of INVENTOR	Date
Eric W. Olsen		
(type name of Inventor)	Signature of INVENTOR	Date
Steven G. Caldwell	Illusi / alde	1/18-08
(type name of Inventor)	signature of INVENTOR	Date

Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention-Multiple Inventors [16-3.2]-page 2)

PATENT REEL: 029245 FRAME: 0172

RECORDED: 11/06/2012