## 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			04/17/2007	
Michale E. Waller			04/17/2007	
Jeffrey L. Weigold			04/17/2007	
Alfred J. Mosco			04/18/2007	
	DATA			
Name:	TDY Industries, Inc	2.		
Street Address:	1000 Six PPG Plac	1000 Six PPG Place		
City:	Pittsburgh	Pittsburgh		
State/Country:	PENNSYLVANIA			
Postal Code:	15222			
PROPERTY NUMBERS Total: 1 Property Type Number				
Application Number: 1173		7993		
CORRESPONDENCE DATA         Fax Number:       (412)394-3010         Correspondence will be sent via US Mail when the fax attempt is unsuccessful.         Phone:       412-394-2839         Email:       PViccaro@alleghenytechnologies.com         Correspondent Name:       Patrick J. Viccaro         Address Line 1:       1000 Six PPG Place         Address Line 4:       Pittsburgh, PENNSYLVANIA 15222				
ATTORNEY DOCKET NUMBER: TMP-2103				
NAME OF SUBMITTER:		Patrick J. Viccaro		
Total Attachments: 4 source=TMP2103Assi <b>500262368</b>	gnment#page1.tif	F	PATENT REEL: 019188 FRAME: 0382	

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No. 7276 P. 1/5

ATTN: MARK L	ESLIE, KEL GATES				
FAX	ESLIE, KEL GATES # : 412 - 355 - 65	01			
Attorney's Docket No. <u>TMP-2103</u>	PATENT				
For: U.S. and/or Foreign Rights For: U.S. Application or U.S. Provisional Application For: U.S. Patent For: PCT Application By: Multiple Inventors					
ASSIGNMENT OF INVE	ENTION (MULTIPLE INVENTORS)				
In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS (Inventors):					
	11323 Pampass Pass				
Prakash E. Mirchandani (type or print name of inventors)	<u>Houston, TX 77095</u> Address	USA Nationality			
Michael E. Waller	207 Tara Leigh Drive Huntsville, AL 35811	USA			
Jeffrey L. Weigold	115 Riverwind Drive Huntsville, AL 35811	USA			
Alfred J. Mosco	10130 Eden Valley Drive Spring, TX 77379	USA			
hereby sells, assigns and transfers to					
ASSIGNEE:					
TDY Industries, Inc. (type or print name of ASSIGNEE)	1000 Six PPG Place Address				
(a California corporation)	Pittsburgh, PA 15222				
and the successors, assigns and legal representatives of the ASSIGNEE					

 $\boxtimes$  the entire right, title and interest

☑ and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled: MODULAR FIXED CUTTER EARTH-BORING BITS, MODULAR FIXED CUTTER EARTH-BORING BIT BODIES, AND RELATED METHODS

PI-1757393 v1 0215785-1391

and which is found in specification of which is attached hereto.

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or reexamination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this \_

Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

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Prakash K. Mirchandani	No K Minh-	4/17/07
(type name of inventor)	Signature of INVENTOR	Date
Michael E. Waller		
lype name of Inventor)	Signature of INVENTOR	Date
Jeffrey L. Weigold		
type name of Inventor)	Signature of INVENTOR	Date
Alfred J. Mosco		
lype name of Inventor)	Signature of INVENTOR	Date

Notarization or Legalization Page Added.

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

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

PATENT REEL: 019188 FRAME: 0385 and which is found in specification of which is attached hereto.

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any relssue or reexamination thereof.

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Prakash K. Mirchandani		
(type name of Inventor)	Signalure of INVENTOR	Date
Michael E. Waller	Mille Ewaller Signature of INVENTOR	4/17/07 Date
type name of Inventor) Jeffrey L. Weigold	Hellon Linh	1 4/n/67
type name of Inventor)	Signature for INVENTOR	Date
Alfred J. Mosco		
type name of Inventor)	Signature of INVENTOR	Date
	rization or Legalization Page Added.	

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

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Prakash K. Mirchandani		
(type name of Inventor)	Signature of INVENTOR	Date
Michael E. Waller		·····
type name of Inventor)	Signature of INVENTOR	Date
Jeffrey L. Weigold	- <u></u>	
type name of Inventor)		Date
Alfred J. Mosco	about Moreo	4/18/2007
type name of Inventor)	Signature of INVENTOR	Date

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

## PATENT REEL: 019188 FRAME: 0387

**RECORDED: 04/20/2007**