PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3091237

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SIARAMAN GOPALRAO	10/31/2014
RAGHAVAN RENGARAJAN	10/31/2014
RAMESH S. RAO	10/31/2014
ALAM RUKHSAR	10/31/2014

RECEIVING PARTY DATA

Name:	KENNAMETAL INDIA LIMITED
Street Address:	8/9TH MILE, TUMKUR ROAD
City:	BANGALORE
State/Country:	INDIA
Postal Code:	560073

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14497742

CORRESPONDENCE DATA

Fax Number: (724)539-5903

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 724-539-5485

k-corp.patents@kennametal.com Email:

KENNAMETAL INC. INTELLECTUAL PROPERTY DE **Correspondent Name:**

Address Line 1: P.O. BOX 231

Address Line 2: 1600 TECHNOLOGY WAY

Address Line 4: LATROBE, PENNSYLVANIA 15650

ATTORNEY DOCKET NUMBER:	K-4282INUS1
NAME OF SUBMITTER:	STEPHEN T. BELSHEIM
SIGNATURE:	/Stephen T. Belsheim/
DATE SIGNED:	11/03/2014

Total Attachments: 3

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> **PATENT** REEL: 034087 FRAME: 0687 503044638

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PATENT REEL: 034087 FRAME: 0688

DOCKET NUMBER: K-4282INUS1

ASSIGNMENT

In accordance with my/our obligations under an Employment Agreement or (as applicable) arising out of other agreements, and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we,

Sivaraman Gopalrao

of #35 Mathru Nivasa, KEB Road, Ittamadu,
B.S.K. III Stage, Bangalore, 560085 IN

Raghavan Rengarajan

of Kruthika, 305, 6thB Cross, OMBR Layout,
Banasawadi, Bangalore 560043 IN

Ramesh S. Rao

of No. 206 Sathyagiri, 9th Cross, Muneshwara
Layout, Attur Yelahanka New Town
Bangalore 560064 IN

Alam Rukhsar

of Qr. No. 12/27, LIC Colony, At.Po Kansbahal,
Dist- Sundargarh, Odisha 770034 IN

hereby sell and assign to Kennametal India Limited, a corporation of the Commonwealth of Karnataka, (hereinafter referred to as Assignee) having an address at 8/9th Mile, Tumkur Road, Bangalore -560073, Karnataka, India, its successors and assigns my (our) entire respective right(s), title(s) and interest(s) in and to the invention and improvements invented and originated by me/us and described in the application for United States Patent currently entitled:

HARD MATERIAL AND METHOD OF MAKING THE SAME FROM AN AQUEOUS HARD MATERIAL MILLING SLURRY

Ш	execute	d concurren	tly herew	rith,				
\boxtimes	filed on	September	26, 2014	having S	erial Nu	nber 1	4/497,	742

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Assignee, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Assignee, I/we will communicate to said Assignee or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

I/we, an inventor signing below, hereby authorize and request my attorneys associated with Customer Number 27877 to insert the application number and filling date, when known, into the assignment for this invention.

- 1 -

DOCKET	NUMBER:	K-4282INUS1

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INVENTOR I		
Signature:	Siyaraman Gopalrao	Date: OC+, 31, 2014
Witnessed by:	Signature	Date: OCT, 31, 2014
	K-CHANDRASHEKAR SHENDY Printed Name of Witness	4.
Witnessed by:	Signature	Date: OCT 31, 2014
	KHILENDRA KUMA)2. Printed Name of Witness	
INVENTOR 2 Signature:	Huga;	Date: Oct 31, 2014
Witnessed by:	Raghavan Rengarajan Lye. 13 - 5 Signature	Date: Oct 31 - 2014.
	LAVANYA · B· S Printed Name of Witness	
Witnessed by: _	Signature 88. GopinaTH	Date: 007 312014
INVENTOR 3	Printed Name of Witness	
Signature:	Ramesh S. Rao	Date: 31-0c1-2014
Witnessed by: _	Signature Signature	Date: 31-0cf-2014
	Printed Name of Witness	
Witnessed by:	Signature	Date: 31-0t-2014
4	S. HARIHARAN Printed Name of Witness	

DOCKET NUMBER: K-4282INUS1

INVENTOR 4						
Signature:	want 1		Date:	31,4	October	2014
	Alam Rukhsai	ŗ			4	_
Witnessed by:	7.7		Date: _	3150	o ctober	$\frac{20/6}{20}$
	Signature					,
	VAISHALI	JAGAN	INATH			
	Printed Name of Witr	iess				
Witnessed by:	phis		Date:	3154	OCT 2	014
•	Signature					

THILLAIRAJAN A

Printed Name of Witness