## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2900048

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
LEWIS RAY MORRISON	05/07/2012
HOWARD MURPHY	05/07/2012
GIANFRANCO ACCARDI	06/15/2012
MARCO PROCOPIO	05/22/2012
ANDREAS LIEBER	05/29/2012
JUAN SECULI	05/14/2012
KUMAR REDDY MYLAVARAM NIKHILESH	06/13/2012

#### RECEIVING PARTY DATA

Name:	KENNAMETAL INC.
Street Address:	1600 TECHNOLOGY WAY
City:	LATROBE
State/Country:	PENNSYLVANIA
Postal Code:	15650-0231

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14245657

#### **CORRESPONDENCE DATA**

Fax Number: (412)945-5933

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: 412-471-8815

Email: assignments@webblaw.com **Correspondent Name:** THE WEBB LAW FIRM

ONE GATEWAY CENTER, 420 FT DUQUESNE BLVD Address Line 1:

Address Line 2: **SUITE 1200** 

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER:	K-4063USUS3 //0687-140520
NAME OF SUBMITTER:	JAMES G. PORCELLI
SIGNATURE:	/James G. Porcelli/
DATE SIGNED:	06/16/2014

REEL: 033111 FRAME: 0621 502853450

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Total Attachments: 26	
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RECORDATION FORM COVER SHEET PATENTS ONLY				
	To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.			
1. Name of conveying party(ies) Lewis Ray Morrison Howard Murphy Gianfranco Accardi  Additional name(s) of conveying party(ies) attached? ✓ Yes ☐ No 3. Nature of conveyance/Execution Date(s): Execution Date(s) May 7, 2012; May 7, 2012; June 15, 2012 ✓ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Joint Research Agreement ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License ☐ Other_  4. Application or patent number(s): ☐ This	2. Name and address of receiving party(ies)  Name: KENNAMETAL INC.  Internal Address:			
A. Patent Application No.(s) 14/245,657  Additional numbers at	B. Patent No.(s) ached? ☐ Yes ✓ No			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:1			
Name: James G. Porcelli	7. Total fee (37 CFR 1.21(h) & 3.41) \$			
Internal Address: The Webb Law Firm  Street Address: One Gateway Center  420 Ft. Duquesne Blvd., Ste 1200	Authorized to be charged by credit card  Authorized to be charged to deposit account  Enclosed  ✓ None required (government interest not affecting title)			
City: Pittsburgh	8. Payment Information			
State: <u>PA</u> Zip: <u>15222</u>	a. Credit Card Last 4 Numbers 1916 Expiration Date 05/2015			
Phone Number: 412-471-8815  Fax Number: 412-945-5933	b. Deposit Account Number 23-0650			
Email Address: assignments@webblaw.com	Authorized User Name			
9. Signature: Signature	June 16, 2014 Date			
James G. Pórcelli, Registration No. 33,7  Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Doc. No. 2S16684

# RECORDATION FORM COVER SHEET PATENTS ONLY

Page 2

U.S. Patent Application No1	4/245,657 , filed April 4, 2014
U.S. Patent No.	, issued
Additional Inform	nation (continued from Page 1)
Name of conveying party(ies) Marco Procopio Andreas Lieber Juan Seculi Kumar Reddy Mylavaram Nikhilesh	Name and address of receiving party(ies)  Name:  Internal Address:
	Street Address:
Execution Date(s): May 22, 2012; May 29, 2012;	City:
May 14, 2012; June 13, 2012	State: Zip:
Name of conveying party(ies)	Name and address of receiving party(ies)  Name:  Internal Address:
	Street Address:
	City:
Execution Date(s):	State:
	Country:Zip:

#### **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,

LEWIS RAY MORRISON 5302 Shady Lane, Latrobe, PA 15650, US

HOWARD MURPHY of Stonycroft, Church Lane

> Cold Ashby, Northampton, United Kingdom NN6 6EG

GIANFRANCO ACCARDI Via Lessona 6

Milano, Italy 20157

MARCO PROCOPIO of 12 Via Costantino

Milano, Italy 20017

ANDREAS LIEBER of Rebhuhnweg 14

Zirndorf, Germany 90513

JUAN SECULI of Kesselgraben 14

Nuemberg, Germany 90427

KUMAR REDDY MYLAVARAM NIKHILESH of E006 Krishna Diamond Apartments

Sahakarnagar, Banganlore India 560092

hereby sell and assign to Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, (hereinafter referred to as Assignee) having an address at 1600 Technology Way, Latrobe, Pennsylvania 15650-0231, USA, 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:

#### INDEXABLE CIRCULAR CUTTING INSERT

	executed concurrently herewith,
$\boxtimes$	filed on April 24, 2012 having Serial Number 13/454,660

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 filing date, when known, into the assignment for this invention.

Signature: Lewis Coy Monnous  LEWIS RAY MORRISON	Date: 5-7-/2
Witnessed by: Brail N Waffur Signature	Date: 5-7-12
BRAO HOFFER Printed Name of Witness  Witnessed by: McLad f. Marian Signature  M.chael G. Micrison Printed Name of Witness	Date:
INVENTOR 2 Signature: HOWARD MURPHY	Date:
Witnessed by:Signature	Date:
Printed Name of Witness	
Witnessed by: Signature	Date:
Printed Name of Witness INVENTOR 3	
Signature:  GIANFRANCO ACCARDI	Date:
Wimessed by:	Date:

Assignment 1.28.09

	Signature		
	Printed Name of Witness	<u>.</u>	
Witnessed by:		Date:	
	Signature		
	Printed Name of Witness	-	
INVENTOR 4			
Signature:	MARCO PROCOPIO	Date:	·
Witnessed by: _		Date:	
	Signature	-	
	Printed Name of Witness	-	
Witnessed by: _	Signature	Date:	
	Signature		
	Printed Name of Witness	<b>-</b>	
INVENTOR 5			
Signature:A	NDREAS LIEBER	Date:	
Witnessed by: _	O'control of the control of the cont	Date:	
	Signature		
	Printed Name of Witness	_	
Witnessed by: _	Signature	Date:	
	Printed Name of Witness	-	

INVENTOR 6			
Signature:	JUAN SECULI	Date:	
,	JUAN SECULI		
Witnessed by:	Signature	Date:	
	Signature		
	Printed Name of Witness	-	
Witnessed by:		Date:	
11 2000000 0 0 1 2	Signature		mengangkan kerangan bagai menamban bagai nganapan sebahan sara kerahan menambasa
	Printed Name of Witness	-	·
INVENTOR 7			
Signature:	KUMAR REDDY MYLAVARAM NI	Date:	
	KUMAR REDDY MYLAVARAM NI	KHILESH	
Witnessed by		Date:	
withessed by.	Signature	Date:	
	Printed Name of Witness	<u>.</u>	
Witnessed by:		Date:	
	Signature		
	Printed Name of Witness	•	

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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,

LEWIS RAY MORRISON

of 5302 Shady Lane,

Latrobe, PA 15650, US

United Kingdom NN6 6EG

HOWARD MURPHY

of Stonycroft, Church Lane Cold Ashby, Northampton,

GIANFRANCO ACCARDI

Via Lessona 6

Milano, Italy 20157

MARCO PROCOPIO

of 12 Via Costantino Milano, Italy 20017

ANDREAS LIEBER

of Rebhuhnweg 14

Zirndorf, Germany 90513

JUAN SECULI

of Kesselgraben 14

Nuernberg, Germany 90427

KUMAR REDDY MYLAVARAM NIKHILESH

E006 Krishna Diamond Apartments Sahakarnagar, Banganlore India 560092

hereby sell and assign to Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, (hereinafter referred to as Assignee) having an address at 1600 Technology Way, Latrobe, Pennsylvania 15650-0231, USA, 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:

of

#### INDEXABLE CIRCULAR CUTTING INSERT

	executed c	oncurrer	itly h	erewith	l,			
X	filed on Ap	pril 24, 2	2012 ł	aving	Serial	Number	13/454,6	660

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 filing date, when known, into the assignment for this invention.

INVENTOR I	
Signature: LEWIS RAY MORRISON	Date:
LE WIS RAI MORRISON	
Witnessed by: Signature	Date:
Signature	•
Printed Name of Witness	
Witnessed by:Signature	Date:
Signature	
Printed Name of Witness	
INVENTOR 2	
Signature:	Date: 5/7/12
HOWARD MURPHY	
Witnessed by:	Date: 5 7 12
Signature T. D. COUTTOCK	
Printed Name of Witness	
Witnessed by:Signature	Date:
Signature	•
Printed Name of Witness	
INVENTOR 3	
Signature: Gruntune About	Date: 15/06/2012
GIANFRANCO ACCARDI	
Witnessed by: Pedro Line Step	Date: 15/06/2012

Assignment 1.28.09

Signature	
PEDRAZZINI STEFANO Printed Name of Witness  Witnessed by:    Giuseppe Spoudi	Date: 15/06/2012
INVENTOR 4	-
Signature: MARCO PROCOPIO	Date:
Witnessed by:Signature	Date:
Printed Name of Witness	
Signature . Printed Name of Witness	Date:
INVENTOR 5	·
Signature:ANDREAS LIEBER	Date:
Witnessed by: Signature	Date:
Printed Name of Witness	
Witnessed by:Signature	Date:
Printed Name of Witness	

INVENTOR 6			
Signature:		Date:	
	IUAN SECULI		
Witnessed by:	Signature	Date:	
	Signature		
	Printed Name of Witness		
Witnessed by:			
-	Signature		
	Printed Name of Witness	<u>-</u>	
INVENTOR 7			
Signature:		Date:	
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williessed by:	Signature	Date.	
	Printed Name of Witness	_	
Witnessed by:		Date:	
	Signature		
	Printed Name of Witness	out.	

#### 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,

LEWIS RAY MORRISON of 5302 Shady Lane, Latrobe, PA 15650, US

HOWARD MURPHY of Stonycroft, Church Lane
Cold Ashby, Northampton,
United Kingdom NN6 6EG

GIANFRANCO ACCARDI of Via Lessona 6
Milano, Italy 20157

MARCO PROCOPIO of 12 Via Costantino Milano, Italy 20017

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JUAN SECULI of Kesselgraben 14 Nuemberg, Germany 90427

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executed concurrently herewith,						
filed on April 24, 2012 having Serial Number 13/454,660	$\boxtimes$					

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INVENTOR 1	·
Signature: LEWIS RAY MORRISON	Date:
Witnessed by: Signature	Date:
Printed Name of Witness	•
Witnessed by:Signature .	Date:
Printed Name of Witness	
INVENTOR 2	
Signature: HOWARD MURPHY	Date:
Witnessed by:Signature	Date:
Printed Name of Witness	•
Witnessed by: Signature	Date:
Printed Name of Witness	<b>-</b>
INVENTOR 3	
Signature: GIANFRANCO ACCARDI	Date:
Witnessed by:	Date:

Assignment 1,28.09

Signature	
Printed Name of Witness  Witnessed by:  Signature	Date:
Signature Printed Name of Witness	
Signature: Macco Procopio  MARCO PROCOPIO	Date: 22/05/2012
Witnessed by: Ough Sem	
Printed Name of Witness  Witnessed by:  Signature  Printed Name of Witness	Date: 22/05/2012
INVENTOR 5	
Signature: ANDREAS LIEBER	Date:
Witnessed by:Signature	Date:
Printed Name of Witness	· ;
Witnessed by: Signature	Date:

Assignment 1,28.09

Printed Name of Witness

INVENTOR 6			
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INVENTOR 7		•	
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	Printed Name of Witness		

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#### INDEXABLE CIRCULAR CUTTING INSERT

	dexecuted concurrently herewith,							
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図	filed on	April 24	, 2012	baving	Serial	Number	13/454	,660

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.

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INVENTOR 1			
Signature: LEWIS RAY MOI	RRISON	Date:	amakan immun sida a Amerin karan gigin gaga asta akangga kaba
Witnessed by:Signature	ISOSOTITUS CINCO NATO Prohomo reconstructura	Date:	 Dalianisti SALINTINI DI Territori di Proposito preservo resiste
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Witnessed by: Signature	**************************************	Date:	1996 Million (1994) - Amerika mengangan kepada sepada sepada sebagai kepada sebag
Printed Name of	Witness		
INVENTOR 2 Signature:HOWARD MURP	HY .	Date:	romente est est est est est est est est est e
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Printed Name of V	Witness		
INVENTOR 3			
Signature: GIANFRANCO ACCA	RDI	Date:	gallunkanungananganungan-an-maggilanga -
Witnessed by:		Date:	·

Assignment 1.28.09

Signature	
Printed Name of Witness	
Witnessed by:Signature	Dato:
Printed Name of Witness	
INVENTOR 4	
Signature: MARCO PROCOPIO	Date:
Witnessed by: Signature	Date:
Printed Name of Witness	
Witnessed by:Signature	Date:
Printed Name of Witness	•
Signature: Indreas Cul ANDREAS LIEBER	Date: 29. May Zone
Witnessed by: Signature	Date: 29. Mai 2012
Witnessed by:  Witnessed by:  Witnessed by:  Witnessed by:  W. Fluid  Signature  Witnessed by:  Printed Name of Witness	Date: 29. Mai 2012

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INVENTOR 1			
Signature:	LEWIS RAY MORRISON	Date:	oue-manor were recovered to the control of the cont
Witnessed by:	Signature	Date:	
	Printed Name of Witness		
Witnessed by: _	Signature	Date:	
	Printed Name of Witness		
INVENTOR 2			
Signature:	HOWARD MURPHY	Date:	
	Signature		
	Printed Name of Witness	·	
Witnessed by: _	Signature	Date:	
	Printed Name of Witness		
INVENTOR 3			
Signature:GI	ANFRANCO ACCARDI	Date:	
Witnessed by:		Date:	and the second s

	Signature		
	Printed Name of Witness		
Witnessed by:	Signature	Date:	Marie and the second
	Printed Name of Witness		
INVENTOR 4			
Signature:	AARCO PROCOPIO	Date:	
18	IARCO PROCUPIO		
Witnessed by:	Signature	Date:	hande and the state of the stat
	Printed Name of Witness		
Witnessed by:	Signature	Date:	
	Printed Name of Witness	· · · · · · · · · · · · · · · · · · ·	
INVENTOR 5			
Signature:A	NDREAS LIEBER	Date:	
Witnessed by: _	Signature	Date:	
	Printed Name of Witness		
Witnessed by:	Signature	Date:	- Marian Mari
	Printed Name of Witness		

INVENTOR 6	
Signature: JUAN-SECULI	Date: May 14th 2016
Witnessed by: Signature	Date: 144 1444. 200
Printed Name of Witness  Witnessed by: KCULL DOWN Signature  RAUS DOWN Printed Name of Witness	Date: 91024 14th 2012
INVENTOR 7	
Signature: KUMAR REDDY MYLAVARAM NII	Date:KHILESH
Witnessed by: Signature	Date:
Printed Name of Witness	
Witnessed by: Signature	Date:

Assignment 1.28.09

Printed Name of Witness

INVENTOR 6			
Signature:		Date: _	
	JUAN SECULI		•
Witnessed by:	Signature	Date: _	oppingssagssagssagssagssagssagssagssagssagss
	Signature		
	Printed Name of Witness		•
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Witnessed by:		Dete:	rigar issummandagapan gantha dalapangal da 1884-bayah ang mangam-yar Sandah ke bibba wa kababanga daga paga pa
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	Printed Name of Witness		
INVENTOR 7			
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#### 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,

LEWIS RAY MORRISON of 5302 Shady Lane,

Latrobe, PA 15650, US

HOWARD MURPHY of Stonycroft, Church Lane

Cold Ashby, Northampton, United Kingdom NN6 6EG

GIANFRANCO ACCARDI of Via Lessona 6

Milano, Italy 20157

MARCO PROCOPIO of 12 Via Costantino

Milano, Italy 20017

ANDREAS LIEBER of Rebhuhnweg 14

Zirndorf, Germany 90513

JUAN SECULI of Kesselgraben 14

Nuernberg, Germany 90427

KUMAR REDDY MYLAVARAM NIKHILESH of E006 Krishna Diamond Apartments

Sahakarnagar, Banganlore India 560092

hereby sell and assign to Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, (hereinafter referred to as Assignee) having an address at 1600 Technology Way, Latrobe, Pennsylvania 15650-0231, USA, 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:

#### INDEXABLE CIRCULAR CUTTING INSERT

		execute	d concurr	ently l	nerewitl	1,			
[	X	filed on	April 24,	2012	having	Serial	Number	13/454,	660

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 filing date, when known, into the assignment for this invention.

INVENTOR 1	
Signature:LEWIS RAY MORRISON	Date:
Witnessed by:Signature	Date:
Printed Name of Witness	
Witnessed by:Signature	Date:
Printed Name of Witness	
INVENTOR 2	
Signature: HOWARD MURPHY	Date:
Witnessed by: Signature	Date:
Printed Name of Witness	
Witnessed by:Signature	Date:
Printed Name of Witness	
NVENTOR 3	
GIANFRANCO ACCARDI	Date:
Witnessed by:	Date:

	Signature		
	Printed Name of Witness		
Witnessed by: _	Signature	Date:	***************************************
	Printed Name of Witness		
INVENTOR 4			
	IARCO PROCOPIO	Date:	
14	IARCO PROCOFIO		
Witnessed by: _	Signature	Date:	yapan karangan karang
	Printed Name of Witness		
Witnessed by:	Signature	Date:	
	Printed Name of Witness		
INVENTOR 5			
Signature:A	NDREAS LIEBER	Date:	- <del></del>
Witnessed by:	Signature	Date:	
	Printed Name of Witness		
Witnessed by:	Signature	Date:	Accordance
	Printed Name of Witness		

INVENTOR 6	·		
Signature:		Date:	
	JUAN SECULI		
Witnessed by:		Date:	
	Signature	24.04	
•			· •
•	Printed Name of Witness		9
Witnessed by:	Signature	Date: _	
	Signature		
	8		
	Printed Name of Witness		
INVENTOR 7			
Signature:	M. Wilditesh lamas hiddy KUMAR REDDY MYLAVARAM NIKHILE	Date: _	13/6/2012
		SH	<b>,</b> .
	Chand		
Witnessed by:	(Mineaux)	Date:	13/06/2012
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Julisann. Signature		***************************************
	Makesh Sainath Todkar		•
- mind the first designation	Printed Name of Witness		
Witnessed by:	P. Shiva Krishna.	Date: _	13/06/2012.
•	Signature		•
	PINNOTU SHIVA KRISHNA		
	Printed Name of Witness		

Assignment 1.28.09