

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2932639

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	REBEI BEL FDHILA	06/12/2014
	JAN-ERIK ERIKSSON	05/23/2014
	OLOF HJORTSTAM	05/23/2014
	MOHAMED ALI RAHMANI	06/18/2014
	SHIVA SANDER-TAVALLAEY	06/13/2014
	OLA WIDLUND	05/27/2014
	HONGLIANG YANG	05/22/2014
	XIAOJING ZHANG	06/11/2014
RECEIVING PARTY DATA		
Name:	ABB RESEARCH LTD.	
Street Address:	AFFOLTERNSTRASSE 44	
City:	CH-8050 ZURICH	
State/Country:	SWITZERLAND	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14323671
CORRESPONDENCE DATA		
Fax Number:	(203)327-1096	
<i>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.</i>		
Phone:	203-324-6155	
Email:	abryce@ssjr.com	
Correspondent Name:	WESLEY W. WHITMYER JR.	
Address Line 1:	986 BEDFORD STREET	
Address Line 4:	STAMFORD, CONNECTICUT 06905	
ATTORNEY DOCKET NUMBER:	04189-P0179A	
NAME OF SUBMITTER:	WESLEY W. WHITMYER JR.	
SIGNATURE:	/Wesley W. Whitmyer Jr/	
DATE SIGNED:	07/10/2014	
Total Attachments: 10		

PATENT

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Assignment

WHEREAS, We, the undersigned inventors, have made certain inventions or discoveries (or both) as set forth in an application for Letters Patent of the United States of America, entitled **Method For Melting Steel**, bearing U.S. Patent Application No. 14/323,671 and filed on July 3, 2014;

WHEREAS, ABB Research Ltd., a company organized and existing under the laws of Switzerland, and having an office and place of business at Affolternstrasse 44; CH-8050 Zurich, Switzerland, and, together with its successors and assigns is hereinafter called "Assignee", and is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

NOW THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in any and all countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patents to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application

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documents, including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns, which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN WITNESS WHEREOF, we, Rebel Bel Fdhila, Jan-Erik Eriksson, Olof Hjortstam, Mohamed Ali Rahmani, Shiva Sander-Tavallaey, Ola Widlund, Hongliang Yang, and Xiaojing Zhang, have hereunto set our hands and signed our names.

2014-06-12

Date



Rebei Bel Fdhila

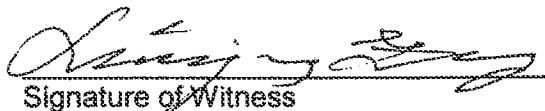
Synalsvagen 5

S-724 76 Vasteras, Sweden

Declaration of Witness

I declare that I was personally present and did see Rebei Bel Fdhila, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Vasteras, on 2014-06-12

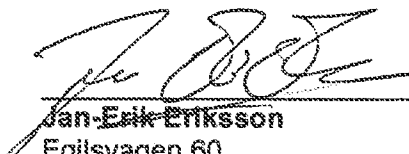


Signature of Witness

Xiao Jing Zhang

Name of Witness

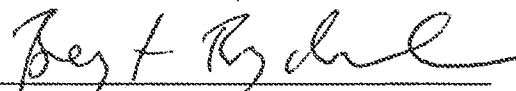
2014-05-23
Date


Jan-Erik Eriksson
Egilsvagen 60
S-723 55 Vasteras, Sweden

Declaration of Witness

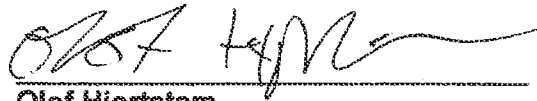
I declare that I was personally present and did see Jan-Erik Eriksson, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Västerås, on 2014-05-23


Signature of Witness

Bengt Rydholm
Name of Witness

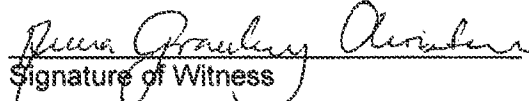
May 23 - 2014
Date


Olof Hjortstam
Tortuna Kolsta 10
S-725 93 Vasteras, Sweden

Declaration of Witness

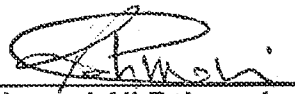
I declare that I was personally present and did see Olof Hjortstam, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Vasteras, on 23rd of May 2014.


Signature of Witness

Anna Granberg Christerson
Name of Witness

2014-06-18
Date


Mohamed Ali Rahmani
Bomansgatan 26D
722 20 Vasteras, Sweden

Declaration of Witness

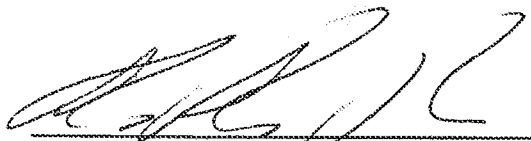
I declare that I was personally present and did see Mohamed Ali Rahmani, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Vasteras, on 2014-06-18


Signature of Witness

Spik Sander Persson
Name of Witness

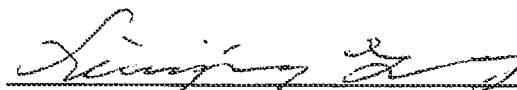
1316-204
Date


Shiva Sander-Tavallaey
Sandbrovagen 40
SE-183 30 Taby, Sweden

Declaration of Witness

I declare that I was personally present and did see Shiva Sander-Tavallaey, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Västerås, on 2014-06-13


Signature of Witness

Xiaoqing Zhang
Name of Witness

2014-05-27

Date

Ola

Ola Widlund
Klubbacken 36
129 39 Hagersten, Sweden

Declaration of Witness

I declare that I was personally present and did see Ola Widlund, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Stockholm, on 2014-05-27.

C. M. G.

Signature of Witness

Charlotte Ahlberg

Name of Witness

2014-05-22

Date



Hongliang Yang
Logportsvägen 10
S-72482 Västerås, Sweden

Declaration of Witness

I declare that I was personally present and did see Hongliang Yang, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Västerås, on 2014-05-22

Haiming He

Signature of Witness

Haiming He

Name of Witness

June 11, 2014
Date

Xiaojing Zhang
Xiaojing Zhang
Fyrbaksvagen 8, lgh 27
S-722 10 Vasteras, Sweden

Declaration of Witness

I declare that I was personally present and did see Xiaojing Zhang, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Vasteras, on June 11, 2014

Hassan Hosseini
Signature of Witness
Hassan Hosseini
Name of Witness