502296377 04/03/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the missing conveying party previously recorded on Reel 030032 Frame 0403. Assignor(s) hereby confirms the assignment of assignors' interest.

CONVEYING PARTY DATA

Name	Execution Date
Kyung-Keun Um	03/10/2013
Jong-Kyo Choi	03/11/2013
Woo-Kil Jang	03/11/2013
Hee-Goon Noh	03/11/2013
Hyun-Kwan Cho	03/11/2013

RECEIVING PARTY DATA

Name:	POSCO
Street Address:	1 Koedong-dong, Nam-gu
Internal Address:	Pohang-si
City:	Kyungsangbook-do 790-300
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	13824647			

CORRESPONDENCE DATA

Fax Number: 4129455933

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

Phone: 412-471-8815

Email: assignments@webblaw.com

Correspondent Name: The Webb Law Firm
Address Line 1: 420 Ft. Duquesne Blvd.

Address Line 2: One Gateway Center, Suite 1200
Address Line 4: Pittsburgh, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER: 1455-130795

PATENT

REEL: 030138 FRAME: 0559

> \$40,00 13824647

502296377

NAME OF SUBMITTER:	Kent E. Baldauf
Signature:	/kent e baldauf/
Date:	04/03/2013
Total Attachments: 8 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif	

PATENT REEL: 030138 FRAME: 0560

Kent E. Baldauf, Reg. No. 25,826

Name of Person Signing

OMB No. 0651-0027 (exp. 04/30/2015) United States Patent and Trademark Office RECORDATION FORM COVER SHEET PATENTS ONLY Docket No. 1455-130795 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): 2. Name and address of receiving party(ies) Kyung-Keun Um Hee-Goon Noh Name: POSCO Jong-Kyo Choi Hyun-Kwan Cho Address: 1 Koedong-dong, Nam-gu Woo-Kil Jang Additional name(s) of conveying party(ies) attached? □Yes ☑No Pohang-si 3. Nature of conveyance/Execution Date(s): Kyungsangbook-do 790-300 Execution Date(s) March 10, 2013 and March 11, 2013 Republic of Korea ☐ Assignment □ Merger ☐ Change of Name ☐ Security Agreement ☐ Joint Research Agreement ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License ☑ Other Corrective Assignment to add missing inventor at Reel/Frame 030032 / 0403 Additional name(s) & address(es) attached? □Yes ☑ No This document is being filed together with a new application. 4. Application or patent number(s): A. Patent Application No.(s) B. Patent No.(s) 13/824,647 Additional numbers attached? ☐ Yes ☑ No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: Name: Kent E. Baldauf **7. Total fee** (37 CFR 1.21(h) & 3.41)......\$ 40.00 Internal Address: The Webb Law Firm ☐ Authorized to be charged to deposit account One Gateway Center ☑ Enclosed Street Address: Ft. Duquesne Blvd., Suite 1200 ☐ None required (government interest not affecting title) City: <u>Pittsburgh</u> 8. Payment Information State: Pennsylvania ZIP: 15222 Phone Number: 412-471-8815 Deposit Account Number _____ Fax Number: 412-945-5933 Authorized User Name_____ Email Address: <u>assignments@webblaw.com</u> 9. Signature: _ April 3, 2013 Date

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

Total number of pages including cover

sheet, attachments and documents: | 8



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 19, 2013

PTAS

THE WEBB LAW FIRM, P.C. ONE GATEWAY CENTER 420 FT. DUQUESNE BLVD, SUITE 1200 PITTSBURGH, PA 15222

502275687

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/18/2013 REEL/FRAME: 030032/0403

NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 1455-130795

ASSIGNOR:

UM, KYUNG-KEUN DOC DATE: 03/10/2013

ASSIGNOR:

CHOI, JONG-KYO DOC DATE: 03/11/2013

ASSIGNOR:

JANG, WOO-KIL DOC DATE: 03/11/2013

ASSIGNOR:

NOH, HEE-GOON DOC DATE: 03/11/2013

ASSIGNEE:

POSCO

1 KOEDONG-DONG, NAM-GU, POHANG-SI KYUNGSANGBOOK-DO, KOREA, REPUBLIC OF

790-300

ASSIGNOR: CHO, HYUN-KWAN

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV

APPLICATION NUMBER: 13824647 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: HIGH-STRENGTH STEEL MATERIAL HAVING OUTSTANDING

ULTRA-LOW-TEMPERATURE TOUGHNESS AND A PRODUCTION METHOD THEREFOR

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

PATENT REEL: 030138 FRAME: 0563

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Kyung-Keun Um		03/10/2013
Jong-Kyo Choi		03/11/2013
Woo-Kil Jang		03/11/2013
Hee-Goon Noh + Hyun-Kwan Cho	03/11/2013	03/11/2013

RECEIVING PARTY DATA

Name:	POSCO	
Street Address:	1 Koedong-dong, Nam-gu, Pohang-si	
City:	Kyungsangbook-do	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	790-300	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13824647

CORRESPONDENCE DATA

Fax Number:

4129455933

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

Phone:

412-471-8815

Email:

assignments@webblaw.com The Webb Law Firm, P.C.

Correspondent Name: Address Line 1:

One Gateway Center

Address Line 2:

420 Ft. Duquesne Blvd, Suite 1200

Address Line 4:

Pittsburgh, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER:

1455-130795

NAME OF SUBMITTER:

Kent E. Baldauf

Total Attachments: 5

PATENT

REEL: 030138 FRAME: 0564

Form	PTC)-1595	(Rev.	07/05)
OMB	Nο	0651-	0027	/evn	ัด/30/2008)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

United States Patent and Trademark Office					
RECORDATION FORM COVER SHEET					
	TS ONLY				
To the Director of the U.S. Patent and Trademark Office: Plea	se record the attached documents or the new address(es) below.				
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)				
Kyung-Keun UM Hyun-Kwan Cho Jong-Kyo CHOI	Name: POSCO				
Woo-Kil JANG	Internal Address:				
Hee-Goon NOH					
Additional name(s) of conveying party(ies) attached? ✓ Yes No					
3. Nature of conveyance/Execution Date(s):	Street Address: 1 Koedong-dong, Nam-gu				
Execution Date(s) March 10, 2013 and March 11, 2013	Pohang-si, Kyungsangbook-do				
✓ Assignment					
Security Agreement Change of Name	City:				
Joint Research Agreement	State:				
Government Interest Assignment	Country, DEDITIES OF KODEA				
Executive Order 9424, Confirmatory License	Country: REPUBLIC OF KOREA Zip: 790-300				
Other	Additional name(s) & address(es) attached? Yes V No				
4. Application or patent number(s):	document is being filed together with a new application.				
A. Patent Application No.(s)	B. Patent No.(s)				
Additional numbers at	ached?Yes _✓ No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents				
Name: Kent E. Baldauf	involved: 1				
	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00				
Internal Address: The Webb Law Firm	Authorized to be charged by credit card				
	Authorized to be charged to deposit account				
Street Address: One Gateway Center	Enclosed				
420 Ft. Duquesne Blvd., Ste 1200	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 _4775				
	Expiration Date 05/2015				
Phone Number: 412-471-8815 Fax Number: 412-945-5933	b. Deposit Account Number 23-0650				
	Authorized User Name				
Email Address: assignments@webblaw.com	// /				
9. Signature: But E But	March 18, 2013				
Signature	Date				
Kent E. Baldauf, Reg. No. 25,826	Total number of pages including cover				
Name of Person Signing	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. 2LX9238

					*`	(nnm.)		RNATIONAL
						lication N Docket N	o Io	
			•					
			ASSIGN	MENT				
		as a below	named in	ventor,	I have i	nvented	certain ne	w and useful
improvements	in.							

HIGH-STRENGTH STEEL MATERIAL HAVING OUTSTANDING ULTRA-LOW-TEMPERATURE TOUGHNESS AND A PRODUCTION METHOD THEREFOR (Invention Title)

AND, WHEREAS, POSCO, a corporation of Republic of Korea, having a place of business at I Koedong-dong, Nam-gu, Pohang-si, Kyungsangbook-do 790-300, Republic of Korea hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREPORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee

Page 1 of 3

REEL: 030138 FRAME: 0566

	Application No.
	Attomey Docket No.
from the rights and interests herein assigned	nable said assignee to obtain and enforce full benefits. I. This Assignment shall be binding upon my heirs, and shall inure to the benefit of the heirs, executors, the case may be, of said assignee.
FULL NAME OF ASSIGNOR: Kyung-Keun UM	RESIDENCE: Pohang-si, Republic of Korea
EXECUTED this 10 day of March	2013
	SIGNATURE
WITNESS:	
Na-Young JEON	
2. FULL NAME OF ASSIGNOR: Jong-Kyo CHOI	RESIDENCE: Pohang-si, Republic of Korea
EXECUTED this 11 day of March,	2013 3/3020
	SIGNATURE
WITNESS:	
Na-Young JEON	

Page 2 of 3

1 additional page(s) for inventor signatures.

Checked Box indicates

INTERNATIONAL

•	•
	INTERNATIONA
•	Application No.
	Attorney Docket No.
•	·
3. FULL NAME OF ASSIGNOR:	RESIDENCE:
Woo-Kil JANG	Pohang-si, Republic of Korea
	2 023425 01, 1400 2010-01 120101
	•
EXECUTED this 11 day of Mar	, 2013
	This In
·	Signature
WITNESS:	
WILWESS:	•
JMI	
Na-Young JEON	
Wat-roung Jeory	
4. FULL NAME OF ASSIGNOR:	RESIDENCE:
Hee-Goon NOH	Pohang-si, Republic of Korea
EXECUTED this // day of 3	0012
EXECUTED this	-,2013
	1 Alf
	SIGNATURE
	The state of the s
WITNESS:	
Jmy.	
Na-Young JEON	
•	
5. FULL NAME OF ASSIGNOR:	RESIDENCE:
Hyun-Kwan CHO	Pohang-si, Republic of Korea
EXECUTED this // day of Mar	_,2013
•	Cont to
<i>:</i>	SIGNATURE
	· · · · · · · · · · · · · · · · · · ·
WITNESS:	
Junt	
No Vers - TEOM	
Na-Young JEON	

REEL: 030138 FRAME: 0568

RECORDED: 04/03/2013