PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3019350

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANAND RAMAN	02/20/2012
JASON M MORGAN	03/06/2012
BARBARA J SAVAGE	02/06/2012
DAVID G MEADOWS	02/15/2012
WAYNE W HAZEN	03/12/2012

RECEIVING PARTY DATA

Name:	FREEPORT-MCMORAN CORPORATION
Street Address:	333 NORTH CENTRAL AVENUE
City:	PHOENIX
State/Country:	ARIZONA
Postal Code:	85004

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13829328

CORRESPONDENCE DATA

Fax Number: (602)382-6070

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: 602-382-6314

Email: chauff@swlaw.com, ipdocket@swlaw.com, matanacio@swlaw.com

Correspondent Name: SNELL & WILMER L.L.P.

Address Line 1: 400 EAST VAN BUREN STREET

Address Line 2: CHARLES F. HAUFF, JR.

Address Line 4: PHOENIX, ARIZONA 85004-2202

ATTORNEY DOCKET NUMBER:	97112.08017
NAME OF SUBMITTER:	CHARLES F. HAUFF, JR.
SIGNATURE:	/Charles F. Hauff, Jr./
DATE SIGNED:	09/11/2014

Total Attachments: 6

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PATENT REEL: 033724 FRAME: 0679

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PATENT REEL: 033724 FRAME: 0680

ASSIGNMENT

UTILITY PATENT

WHEREAS, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR"), of the address(es) indicated below, have invented subject matter disclosed in the patent application entitled "SYSTEM AND METHOD FOR PARALLEL SOLUTION EXTRACTION OF ONE OR MORE METAL VALUES FROM METAL-BEARING MATERIALS" that was filed on December 20, 2011, and assigned U.S. Serial No. 13/331,699.

AND WHEREAS, FREEPORT-MCMORAN CORPORATION (hereinafter "ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the State of New York having its principal place of business at and a mailing address of 333 North Central Avenue, Phoenix, Arizona 85004, is desirous of acquiring any and all rights owned by ASSIGNOR in said patent application;

AND WHEREAS, a "patent application," as referred to herein, shall mean any provisional, non-provisional, continuation, continuation in part, divisional, reissue, reexamination, foreign, PCT or other patent application or like document;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the invention, as described in the aforesaid application, including patent, copyright and any other intellectual property rights, any provisional, non-provisional, continuation, continuation in part, divisional, reissue, reexamination, foreign, PCT or other patent application or like document, or any other application which claims priority to said application, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND HEREBY AGREES to transfer to ASSIGNEE, its successors, assigns and legal representatives, without further remuneration, a like interest in and to any improvements and derivative works, and applications based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers, if accurate, desired by ASSIGNEE, its successors, assigns and legal representatives, to preserve, acquire and/or perfect ASSIGNEE's full protection and title in and to the invention and any improvements and to file any of the aforementioned applications.

AGREEING FURTHERMORE, upon the request of ASSIGNEE, and without further remuneration, to execute any and all papers desire by ASSIGNEE for the filing and granting of any patent applications based on the invention or Application, or improvements therein, and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

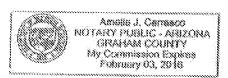
First foint Inventor: Signature	Aban			Dates	120, 20 L
Residence address:	233_N	COURAL	PHOENES	<u> </u>	
STATE OF) > 80				
COUNTY OF) 38.)				
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Second Joint Inventor: Jason M. Morgan		
Signature: Residence address 121 Ironwood Road, Morenci, AZ 85540, U.S.A.	Date:	_2/6/2012
Residence address 121 Ironwood Road, Morenci, AZ 85540, U.S.A.		
STATE OF AZ.) COUNTY OF GRAGON)		
COUNTY OF GRAMM)		
On this Loth day of Market , 2012, before me, a notary p said county, appeared Jason M. Mergan, who is known to me to be t whose name is subscribed to the foregoing instrument, and he acknow signed, sealed and delivered the said instrument as a free and voluntary and purposes therein set forth. Notary Public	he same wledges act for t	person that he he uses
My commission expires:	w.	
Feb 3 2016		



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Third/Joint Inventor: Barbara J. Savage	
Signaturo: L. Vora L. Sacage	Date: <u>0/6/Ev</u> 2/4
Residence address: P.O. Box 5126, Silver City, P	(M 88062, U.S.A.
STATE OF Ss. COUNTY OF State of Ss. On this day of Late of Savage, who is whose name is subscribed to the foregoing instrusigned, scaled and delivered the said instrument as	known to me to be the same person ment, and he acknowledges that he
and purposes therein set forth.	
	Notary Public
My commission expires:	
May 17,2014	VALERIE J. SHOCK Notary Public - Arizona Greentee County My Commission Expres May 17, 2014

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Fourth/Joint Inventor:	David G. N	leado)	<u>NS</u>		haran e e e e e e e e e e e e e e e e e e e		STATE OF THE STATE
Signature:	Q)44	Con	Mar 2);	Date:	15	F. d.	2017
Residence address:	3411 North 1	6 th St	reet, #2069, Phocnix,	AZ 85016, U.S.A.		para da manara e e e	
STATE OF 10 COUNTY OF SQL On this 15 day o said county, appeared whose name is subsc	f Fablus David G. N	Ichilo Town	ws, who is known to oing instrument, and	me to be the sam he acknowledges	e personal that if	on he	
signed, sealed and del and purposes therein s	nvered the st et forth.	1111 1110	e e	a Halic			ppositiv ee
My commission expire	es:		a	Teelleelleelleelleelleelleellee	dhedhed	alli.	
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Fifth/Joint invocuor Chierestatins	A.	NOON CONTRACT OF THE PROPERTY
Signature: Dangton 4	la de la finistra de la composición de	Date: LELMAR 202
Residence address: 11155 Limbi.		
STATE OF CALABAST SECONDLY OF A COUNTY OF		
On this 12 day of 222 and county, appeared Waysie W. I whose name is subscribed to the f signed, sealed and delivered the said and purposes therein set forth.	tisven, who is thrown to me bregoing instrument, and he d instrument as a free and vol	acknowledges that he luntary act for the uses
	Notary	Wildlin S
My commission expires: JOY CHENEY NOTATY PUBLIC STATE OF COLORAL My Commission Expires 12/	**************************************	N.E.

SNELL & WILMER LLP. One Arizona Center 400 Bast Ven Buren Phoenix, Arizona 85004 Phone: (602) 382-6314 Fax: (602) 382-6070

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> PATENT REEL: 033724 FRAME: 0686

RECORDED: 09/11/2014