

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JASON M MORGAN	02/15/2012
BARBARA J SAVAGE	02/06/2012
DAVID G MEADOWS	02/15/2012
WAYNE W HAZEN	02/15/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FREEPORT-MCMORAN CORPORATION
<b>Street Address:</b>	333 NORTH CENTRAL AVENUE
<b>City:</b>	PHOENIX
<b>State/Country:</b>	ARIZONA
<b>Postal Code:</b>	85004
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16671323
<b>CORRESPONDENCE DATA</b>	
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<b>Address Line 4:</b>	PHOENIX, ARIZONA 85004-2202
<b>ATTORNEY DOCKET NUMBER:</b>	97112.08137
<b>NAME OF SUBMITTER:</b>	CHARLES F. HAUFF, JR.
<b>SIGNATURE:</b>	/Charles F. Hauff, Jr./
<b>DATE SIGNED:</b>	11/25/2019
<b>Total Attachments: 5</b>	
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**PATENT**

**REEL: 051102 FRAME: 0268**

## 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 INCLUDING MULTI-CIRCUIT SOLUTION EXTRACTION FOR RECOVERY OF METAL VALUES FROM METAL-BEARING MATERIALS" that was filed on December 20, 2011, and assigned U.S. Serial No. 13/331,717.

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 Joint Inventor: Jason M. Morgan

Signature: *Jason M. Morgan* Date: 2/15/2012

Residence address: 121 Ironwood Road, Morenci, AZ 85540, U.S.A.

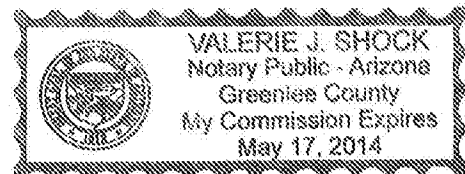
STATE OF Arizona )  
 ) ss.  
COUNTY OF Greenlee )

On this 15<sup>th</sup> day of February, 2012, before me, a notary public in and for said county, appeared **Jason M. Morgan**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

*Valerie J. Shock*  
Notary Public

My commission expires:

May 17, 2014



[Continued on next page]

Second Joint Inventor: Barbara J. Savage

Signature: Barbara J. Savage Date: 06 FEB 12

Residence address: P.O. Box 5126, Silver City, NM 88062, U.S.A.

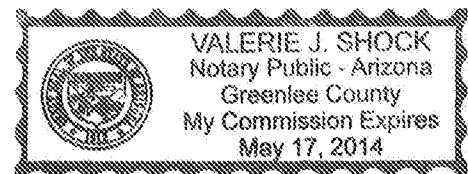
STATE OF AZ )  
 ) ss.  
COUNTY OF Greenlee

On this 6<sup>th</sup> day of Feb, 2012, before me, a notary public in and for said county, appeared **Barbara J. Savage**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

Valerie J. Shock  
Notary Public

My commission expires:

May 17, 2014



[Continued on next page]

Third/Joint Inventor: David G. Meadows

Signature: [Signature] Date: 15 Feb 2012

Residence address: 3411 North 16<sup>th</sup> Street, #2089, Phoenix, AZ 85016, U.S.A.

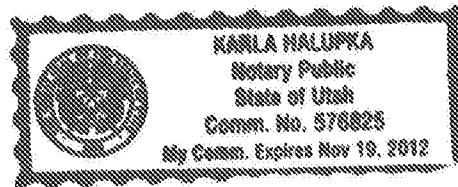
STATE OF Utah )  
COUNTY OF Salt Lake ) ss.

On this 15<sup>th</sup> day of February, 2012, before me, a notary public in and for said county, appeared David G. Meadows, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

[Signature]  
Notary Public

My commission expires:

Nov. 19, 2012



[Continued on next page]

Fourth/Joint Inventor: Wayne W. Hazen

Signature: Wayne W. Hazen Date: 15 Feb 2012

Residence address: 11155 Linda Vista Drive, Lakewood, CO 80215, U.S.A.

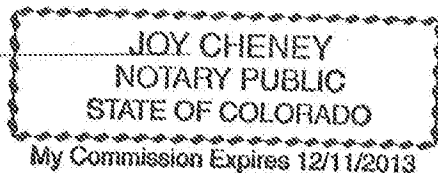
STATE OF Colorado  
) ss.

COUNTY OF Jefferson

On this 15 day of Feb., 2012, before me, a notary public in and for said county, appeared Wayne W. Hazen, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

[Signature]  
Notary Public

My commission expires:



**SNELL & WILMER L.L.P.**  
One Arizona Center  
400 East Van Buren  
Phoenix, Arizona 85004  
Phone: (602) 382-6314  
Fax: (602) 382-6070

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