

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5839534

|                                                                                                                                                                                                 |                                                              |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                               |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | MERGER                                                       |                       |
| <b>EFFECTIVE DATE:</b>                                                                                                                                                                          | 12/31/2013                                                   |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                              |                       |
|                                                                                                                                                                                                 | <b>Name</b>                                                  | <b>Execution Date</b> |
|                                                                                                                                                                                                 | FREEPORT-MCMORAN CORPORATION                                 | 12/30/2013            |
| <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>                                                                                                                                                                      |                                                              |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (602)382-6070                                                |                       |
| <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> |                                                              |                       |
| <b>Phone:</b>                                                                                                                                                                                   | 602-382-6314                                                 |                       |
| <b>Email:</b>                                                                                                                                                                                   | IPDOCKET@swlaw.com, chauff@swlaw.com,<br>matanacio@swlaw.com |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | SNELL & WILMER L.L.P.                                        |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 400 EAST VAN BUREN STREET                                    |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | CHARLES F. HAUFF, JR.                                        |                       |
| <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>                                                                                                                                                                             | 11/26/2019                                                   |                       |
| <b>Total Attachments: 7</b>                                                                                                                                                                     |                                                              |                       |
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*STATE OF NEW YORK*

*DEPARTMENT OF STATE*

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.



WITNESS my hand and official seal of the  
Department of State, at the City of Albany,  
on December 31, 2013.

*Anthony Giardina*

Anthony Giardina  
Executive Deputy Secretary of State

Rev. 06/13

18123400087

CSC 45  
Drawdown

CERTIFICATE OF MERGER  
OF  
FREEPORT-MCMORAN CORPORATION  
INTO  
FREEPORT-MCMORAN CORPORATION

(Pursuant to Section 907 of the Business Corporation Law)

It is hereby certified, upon behalf of each of the constituent corporations herein named, as follows:

FIRST: The Board of Directors of each of the constituent corporations has duly adopted a plan of merger setting forth the terms and conditions of the merger of said corporations.

SECOND: The name of the foreign constituent corporation which is to be the surviving corporation and which is hereinafter sometimes referred to as the "Surviving Corporation" shall be Freeport-McMoRan Corporation.

The domestic jurisdiction of the Surviving Corporation is Delaware, and the date of its incorporation therein is November 13, 2013.

No Application for Authority in the State of New York of the Surviving Corporation to transact business as a foreign corporation therein was filed by the Department of State of the State of New York; and it is not to do business in the State of New York until an Application for Authority shall have been filed by the Department of State of the State of New York.

THIRD: The name of the domestic constituent corporation which is being merged into the surviving constituent corporation and which is hereinafter sometimes referred to as the "Merged Corporation," is Freeport-McMoRan Corporation. The name under which the Merged Corporation was formed is Copper Queen Consolidated Mining Company.

The date upon which the Merged Corporation's Certificate of Incorporation was filed by the Department of State is August 10, 1885.

FOURTH: As to each constituent corporation, the plan of merger sets forth the designation and number of outstanding shares of each class and series, the specification of the classes and series entitled to vote on the plan of merger, and the specification of each class and series entitled to vote as a class on the plan of merger, as follows:

FREEPORT-MCMORAN CORPORATION  
a New York corporation

| Name and Type of Stock Outstanding | Number of Outstanding Shares | Name and Type of Shares Entitled to Vote |
|------------------------------------|------------------------------|------------------------------------------|
| Common Stock, par value \$0.01     | 100                          | Common Stock, par value \$0.01           |

**FREEPORT-MCMORAN CORPORATION**  
a Delaware corporation

| Name and Type of Stock Outstanding | Number of Outstanding Shares | Name and Type of Shares Entitled to Vote |
|------------------------------------|------------------------------|------------------------------------------|
| Common Stock, par value \$0.01     | 100                          | Common Stock, par value \$0.01           |

**FIFTH:** The merger herein certified was authorized in respect of the Merged Corporation by the written consent of the sole shareholder.

**SIXTH:** The merger herein certified complies with the applicable provisions of the laws of the State of Delaware under which Subsidiary was incorporated, and this merger is permitted by such laws.

**SEVENTH:** The Surviving Corporation agrees that it may be served with process in the State of New York in any action or special proceeding for the enforcement of any liability or obligation of the merged constituent corporation, for the enforcement of any liability or obligation of the Surviving Corporation for which the Surviving Corporation is previously amenable to suit in the State of New York, and for the enforcement, as provided in the Business Corporation Law of the State of New York, of the right of shareholders of the Merged Corporation to receive payment for their shares against the surviving constituent corporation.

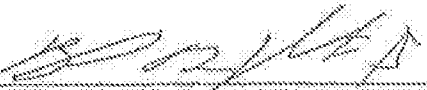
**EIGHTH:** The surviving corporation agrees that, subject to the provisions of Section 623 of the Business Corporation Law, it will promptly pay to the shareholders of the Merged Corporation the amount, if any, to which they shall be entitled under the provisions of the Business Corporation Law of the State of New York relating to the right of shareholders to receive payment for their shares.

**NINTH:** The Surviving Corporation hereby designates the Secretary of State of the State of New York as its agent upon whom process against it may be served in the manner set forth in paragraph (b) of Section 309 of the Business Corporation Law of the State of New York, in any action or special proceeding. The mailing address without the State of New York to which the said Secretary of State shall mail a copy of any process against the Surviving Corporation served upon him is: 333 N. Central Ave., Phoenix, AZ 85004.

**TENTH:** The Surviving Corporation hereby agrees that after the filing of the Certificate of Merger the Surviving Corporation will file the cessation franchise tax report, if an estimated report was previously filed, and promptly pay to the Department of Taxation and Finance all fees and taxes (including penalties and interest), if any, due to the Department of Taxation and Finance by the Merged Corporation.

IN WITNESS WHEREOF, the undersigned constituent corporations have caused this Certificate of Merger to be duly executed as of this 30th day of December, 2013.

FREEPORT-MCMORAN CORPORATION,  
a New York corporation

By:   
Douglas N. Currault II  
Secretary

FREEPORT-MCMORAN CORPORATION,  
a Delaware corporation

By:   
Douglas N. Currault II  
Secretary

CSC 45  
Drawdown

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CERTIFICATE OF MERGER  
OF  
FREEPORT-MCMORAN CORPORATION  
a New York corporation  
and

FREEPORT-MCMORAN CORPORATION  
a Delaware corporation

With and into

FREEPORT-MCMORAN CORPORATION  
a Delaware corporation

(Pursuant to Section 907 of the Business Corporation Law)

Filer Name: Michele A. Hughes

Business Name: Freeport-McMoRan Corporation

Address: 333 N. Central Ave., Phoenix, AZ 85004

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# SCHEDULE A

| DOCKET NO.  | APP. NO.   | FILING DATE | PATENT NO. | ISSUE DATE |
|-------------|------------|-------------|------------|------------|
| 97112.1100  | 09/912,945 | 07/25/2001  | 6,497,745  | 12/24/2002 |
| 97112.1117  | 10/328,633 | 12/23/2002  | 6,890,371  | 05/10/2005 |
| 97112.2600  | 09/912,922 | 07/25/2001  | 6,680,034  | 01/20/2004 |
| 97112.2617  | 10/758,755 | 01/16/2004  | 7,473,413  | 01/06/2009 |
| 97112.2636  | 11/952,726 | 12/07/2007  | 7,666,371  | 02/23/2010 |
| 97112.2700  | 09/915,105 | 07/25/2001  | 6,676,909  | 01/13/2004 |
| 97112.2717  | 10/756,574 | 01/12/2004  | 7,341,700  | 03/11/2008 |
| 97112.02900 | 09/912,921 | 07/25/2001  | 6,451,089  | 09/17/2002 |
| 97112.2917  | 10/238,399 | 09/09/2002  | 6,663,689  | 12/16/2003 |
| 97112.2936  | 10/737,420 | 12/15/2003  | 6,972,107  | 12/06/2005 |
| 97112.2937  | 10/976,481 | 10/29/2004  | 7,476,308  | 01/13/2009 |
| 97112.3000  | 09/912,967 | 07/25/2001  | 6,451,088  | 09/17/2002 |
| 97112.3017  | 10/238,088 | 09/09/2002  | 6,626,979  | 09/30/2003 |
| 97112.3036  | 10/650,167 | 08/27/2003  | 6,893,482  | 05/17/2005 |
| 97112.3037  | 10/907,324 | 03/29/2005  | 7,125,436  | 10/24/2006 |
| 97112.3038  | 11/551,907 | 10/23/2006  | 7,517,384  | 04/14/2009 |
| 97112.3300  | 10/629,497 | 07/28/2003  | 7,378,011  | 05/27/2008 |
| 97112.03317 | 12/126,552 | 05/23/2008  | 7,704,354  | 04/27/2010 |
| 97112.3336  | 12/752,933 | 04/01/2010  | 8,187,450  | 05/29/2012 |
| 97112.3600  | 11/160,909 | 07/14/2005  | 7,393,438  | 07/01/2008 |
| 97112.3617  | 12/165,108 | 06/30/2008  | 7,591,934  | 09/22/2009 |
| 97112.3700  | 12/545,783 | 08/21/2009  | 8,118,907  | 02/21/2012 |
| 97112.03717 | 13/356,711 | 01/24/2012  | 8,491,701  | 07/23/2013 |
| 97112.4100  | 11/163,761 | 10/28/2005  | 7,462,272  | 12/09/2008 |
| 97112.04117 | 12/274,035 | 11/19/2008  | 7,722,756  | 05/28/2010 |
| 97112.4136  | 12/769,884 | 04/29/2010  | 8,012,318  | 09/06/2011 |
| 97112.4200  | 11/163,762 | 10/28/2005  | 7,485,216  | 02/03/2009 |
| 97112.4400  | 11/160,913 | 07/14/2005  | 7,452,455  | 11/18/2008 |
| 97112.4500  | 11/160,910 | 07/14/2005  | 7,494,580  | 02/24/2009 |
| 97112.4600  | 11/160,911 | 07/14/2005  | 7,378,010  | 05/27/2008 |
| 97112.4617  | 12/126,559 | 05/23/2008  | 7,736,486  | 06/15/2010 |
| 97112.4636  | 12/782,003 | 05/18/2010  | 8,016,983  | 09/13/2011 |
| 97112.5217  | 12/718,796 | 03/05/2010  | 8,114,365  | 02/14/2012 |
| 97112.5236  | 13/360,868 | 01/30/2012  | 8,506,673  | 08/13/2013 |
| 97112.5400  | 11/780,850 | 07/20/2007  | 7,824,633  | 11/02/2010 |
| 97112.5600  | 11/856,605 | 09/17/2007  | 8,003,064  | 08/23/2011 |
| 97112.5617  | 13/188,231 | 07/21/2011  | 8,372,360  | 02/12/2013 |
| 97112.5636  | 13/302,369 | 11/22/2011  | 8,372,361  | 02/12/2013 |
| 97112.05637 | 13/736,568 | 01/08/2013  |            |            |
| 97112.5800  | 12/265,992 | 11/06/2008  | 7,993,501  | 08/09/2011 |
| 97112.5817  | 13/170,677 | 06/28/2011  | 8,308,920  | 11/13/2012 |
| 97112.5900  | 12/355,624 | 01/16/2009  | 8,273,237  | 09/25/2012 |



|             |                |            |           |            |
|-------------|----------------|------------|-----------|------------|
| 97112.6017  | 13/588,488     | 08/17/2012 | 8,361,192 | 01/29/2013 |
| 97112.6036  | 13/724,860     | 12/21/2012 | 8,491,700 | 07/23/2013 |
| 97112.6200  | 12/432,454     | 04/29/2009 | 8,022,004 | 09/20/2011 |
| 97112.6300  | 12/432,467     | 04/29/2009 | 8,124,556 | 02/28/2012 |
| 97112.6400  | 12/432,473     | 04/29/2009 | 8,038,855 | 10/18/2011 |
| 97112.6417  | 13/248,244     | 09/29/2011 | 8,372,254 | 02/12/2013 |
| 97112.6436  | 13/739,865     | 01/11/2013 |           |            |
| 97112.6800  | 13/331,661     | 12/20/2011 |           |            |
| 97112.6900  | 12/899,935     | 10/07/2010 | 8,574,440 | 11/05/2013 |
| 97112.07100 | 13/028,973     | 02/16/2011 | 8,597,477 | 12/03/2013 |
| 97112.07200 | 13/028,983     | 02/16/2011 |           |            |
| 97112.7600  | 13/331,731     | 12/20/2011 |           |            |
| 97112.07900 | 13/331,680     | 12/20/2011 |           |            |
| 97112.8000  | 13/331,699     | 12/20/2011 | 8,420,048 | 04/16/2013 |
| 97112.8017  | 13/829,328     | 03/14/2013 |           |            |
| 97112.8036  | 13/837,158     | 03/15/2013 |           |            |
| 97112.8100  | 13/331,717     | 12/20/2011 |           |            |
| 97112.08200 | 13/465,751     | 05/07/2012 |           |            |
| 97112.8400  | 13/801,984     | 03/13/2013 |           |            |
| 97112.8500  | 13/802,000     | 03/13/2013 |           |            |
| 97112.8600  | 13/802,024     | 03/13/2013 |           |            |
| 97112.8700  | 13/802,044     | 03/13/2013 |           |            |
| 97112.8900  | 13/804,009     | 03/14/2013 |           |            |
| 97112.9000  | 13/804,053     | 03/14/2013 |           |            |
| 97112.9100  | 13/716,819     | 12/17/2012 |           |            |
| 97112.9200  | 13/716,836     | 12/17/2012 |           |            |
| 97112.09400 | 14/106,165     | 12/13/2013 |           |            |
| 97112.08316 | PCT/US13/58188 | 09/05/2013 |           |            |
| 97112.08916 | PCT/US14/20508 | 03/05/2014 |           |            |
| 97112.09016 | PCT/US14/20511 | 03/05/2014 |           |            |
| 97112.09316 | PCT/US14/24040 | 03/12/2014 |           |            |