

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Scot P Sandoval</td> <td>07/08/2005</td> </tr> <tr> <td>Antonioni C Stevens</td> <td>07/08/2005</td> </tr> <tr> <td>Timothy G Robinson</td> <td>07/08/2005</td> </tr> <tr> <td>John O Marsden</td> <td>07/11/2005</td> </tr> <tr> <td>Stanley R Gilbert</td> <td>07/08/2005</td> </tr> </tbody> </table>		Name	Execution Date	Scot P Sandoval	07/08/2005	Antonioni C Stevens	07/08/2005	Timothy G Robinson	07/08/2005	John O Marsden	07/11/2005	Stanley R Gilbert	07/08/2005
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RECEIVING PARTY DATA													
Name:	PHELPS DODGE CORPORATION												
Street Address:	One North Central Avenue												
City:	Phoenix												
State/Country:	ARIZONA												
Postal Code:	85004-2202												
PROPERTY NUMBERS Total: 1													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12332641</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12332641								
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CORRESPONDENCE DATA													
Fax Number:	(602)382-6070												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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Email:	chauff@swlaw.com												
Correspondent Name:	SNELL & WILMER L.L.P. (Phelps Dodge)												
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ATTORNEY DOCKET NUMBER:	97112.4517												
NAME OF SUBMITTER:	Charles F. Hauff, Jr.												

CH \$40.00 12332641

Total Attachments: 4

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ASSIGNMENT

UTILITY PATENT

WHEREAS, the undersigned inventors (hereinafter singly and collectively, "ASSIGNOR") of the addresses indicated below, have invented a **SYSTEM AND METHOD FOR PRODUCING COPPER POWDER BY ELECTROWINNING USING THE FERROUS/FERRIC ANODE REACTION**, for which application for Non-Provisional Utility Patent of the United States is filed herewith;

AND WHEREAS, PHELPS DODGE CORPORATION (hereinafter "ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the State of Arizona, having its principal place of business at and a mailing address of One North Central Avenue, Phoenix, Arizona 85004-4464, is desirous of acquiring an interest therein;

AND WHEREAS, a "formal 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 do sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the aforesaid applications, to the invention as described in the aforesaid applications, and to all formal applications which may be filed based in whole or in part on one or more of the aforesaid applications, 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 AGREE to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention;

AGREEING, FURTHERMORE, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

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

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

First joint inventor: Scot P. Sandoval

Signature: Scot P. Sandoval Date: 8 July 05

Residence address: 100 Hohokam, Morenci, Arizona 85540

STATE OF Arizona)
) ss.
COUNTY OF Maricopa

On this 8th day of July, 2005, before me, a notary public in and for said county, appeared **Scot P. Sandoval**, 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.



Sharon Rider
Notary Public

My commission expires: _____

Second joint inventor: Antonioni C. Stevens

Signature: AC Stevens Date: 7/8/05

Residence address: 2597 West Dove Lane, Thatcher, Arizona 85552

STATE OF Arizona)
) ss.
COUNTY OF Maricopa

On this 8th day of July, 2005, before me, a notary public in and for said county, appeared **Antonioni C. Stevens**, 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.



Sharon Rider
Notary Public

My commission expires: _____

Third joint inventor: Timothy G. Robinson

Signature: [Signature]

Date: 7/8/05

Residence address: 9400 North 109th Place, Scottsdale, Arizona 85259

STATE OF Arizona
COUNTY OF Maricopa) ss.

On this 8th day of July, 2005, before me, a notary public in and for said county, appeared **Timothy G. Robinson**, 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:

Fourth joint inventor: John O. Marsden

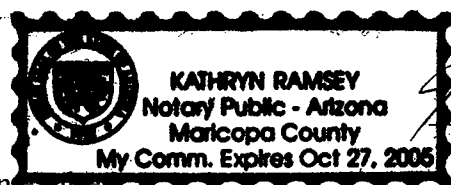
Signature: [Signature]

Date: 07/11/05

Residence address: 1248 East Seminole Drive, Phoenix, Arizona 85022

STATE OF Arizona
COUNTY OF Maricopa) ss.

On this 11th day of July, 2005, before me, a notary public in and for said county, appeared **John O. Marsden**, 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:

10-27-05

Fifth joint inventor: Stanley R. Gilbert

Signature: *Stanley R. Gilbert* Date: 7 JULY 2005

Residence address: 1510 Hummingbird Lane, Thatcher, Arizona 85552

STATE OF Arizona
COUNTY OF Maricopa) ss.

On this 8th day of July, 2005, before me, a notary public in and for said county, appeared Stanley R. Gilbert, 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.



Sharon Rider
Notary Public

My commission expires:
