

11-05-2004

Form PTO-1595 (Rev. 09/04)
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office102876340
PATENTS ONLY

10.29.04

22390 U.S. PTO
10/976481

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)/Execution Date(s):John O. Marsden, March 29, 2004
Robert E. Brewer, March 26, 2004
Joanna M. Robertson, March 29, 2004
David R. Baughman, March 29, 2004

Execution Date(s) _____

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Phelps Dodge Corporation

Internal Address: _____

Street Address: One North Central Avenue

City: Phoenix

State: Arizona

Country: USA

Zip: 85004

Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☒ This document is being filed together with a new application.

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Wendy S. Neal, Esq.

Internal Address: Snell & Wilmer, LLP

Street Address: One Arizona Center

400 E Van Buren

City: Phoenix

State: Arizona

Zip: 85004

Phone Number: 602-382-6334

Fax Number: 602-382-6070

Email Address: wneal@swlaw.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Informationa. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 19,2814

Authorized User Name Wendy S. Neal

9. Signature:

Signature

October 29, 2004

Date

Wendy S. Neal

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 7

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, V.A. 22313-1450

11/04/2004 ECOOPER 00000254 192814 10976481

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PATENT
REEL: 015945 FRAME: 0613



Recordation Form Cover Sheet
Patents Only
Page 2 of 2

1. Additional names and execution dates of conveying parties continued from page 1:

<u>Inventor No.</u>	<u>Inventor Name</u>	<u>Assignment Execution Date</u>
(5)	Philip Thompson	March 30, 2004
(6)	Wayne W. Hazen	March 29, 2004
(7)	Christel M. Bemelmans	March 29, 2004

ASSIGNMENT

UTILITY PATENT

WHEREAS, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR") of the address(es) indicated below, have invented a PROCESS FOR RECOVERY OF COPPER FROM COPPER-BEARING MATERIAL USING MEDIUM TEMPERATURE PRESSURE LEACHING, DIRECT ELECTROWINNING, AND SOLUTION EXTRACTION for which application for Letters Patent of the United States has been executed 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: John O. Marsden

Signature: *John O. Marsden*

Date: 03/29/04

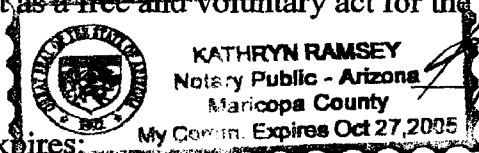
Residence address: 1248 East Seminole Drive, Phoenix, Arizona 85022

STATE OF Arizona

) ss.

COUNTY OF Maricopa

On this 29th day of March, 2004, 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.



Kathryn Ramsey
Notary Public

My commission expires:

Oct. 27, 2005

Second joint inventor: Robert E. Brewer

Signature: *Robert E. Brewer*

Date: 3/26/04

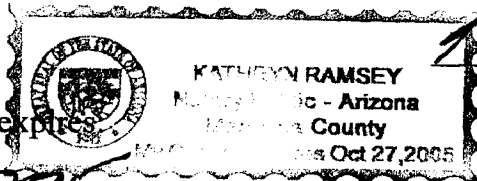
Residence address: 1585 Empire Avenue, #104, Park City Utah 84060

STATE OF Arizona

) ss.

COUNTY OF Maricopa

On this 26th day of March, 2004, before me, a notary public in and for said county, appeared **Robert E. Brewer**, 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.



Kathryn Ramsey
Notary Public

My commission expires:

Oct. 27, 2005

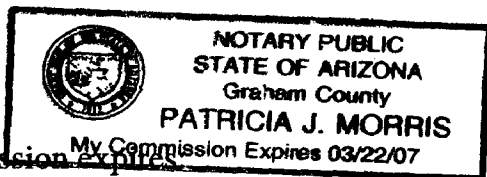
Third joint inventor: Joanna M. Robertson

Signature: *Joanna M. Robertson* Date: 3/29/04

Residence address: 1436 South Roadrunner Lane, Thatcher, Arizona 85552

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2004, before me, a notary public in and for said county, appeared **Joanna M. Robertson**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and she acknowledges that she signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.



Patricia J. Morris
Notary Public

My commission expires: 03/22/07

Fourth joint inventor: David R. Baughman

Signature: _____ Date: _____

Residence address: 15941 West Third Place, Golden, Colorado 80401

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2004, before me, a notary public in and for said county, appeared **David R. Baughman**, 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.

Notary Public

My commission expires:

Third joint inventor: Joanna M. Robertson

Signature: _____ Date: _____

Residence address: 1436 South Roadrunner Lane, Thatcher, Arizona 85552

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2004, before me, a notary public in and for said county, appeared **Joanna M. Robertson**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and she acknowledges that she signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

Notary Public

My commission expires:

Fourth joint inventor: David R. Baughman

Signature:  Date: 3/29/04

Residence address: 15941 West Third Place, Golden, Colorado 80401

STATE OF COLORADO)
) ss.
COUNTY OF JEFFERSON)

On this 29th day of MARCH, 2004, before me, a notary public in and for said county, appeared **David R. Baughman**, 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.


Notary Public

My commission expires:

My Commission Expires 08/22/2004

Fifth joint inventor: Philip Thompson

Signature: *Philip Thompson*

Date: 3/30/04

Residence address: 4513 White Cherry Way, West Valley City, Utah 84120

STATE OF Utah)
COUNTY OF Salt Lake) ss.

On this 30 day of March, 2004, before me, a notary public in and for said county, appeared **Philip Thompson**, 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.

Margo W. Harper
Notary Public

My commission expires:

June 23 2007



Sixth joint inventor: Wayne W. Hazen

Signature: _____

Date: _____

Residence address: 2655 Van Gordon Drive, Lakewood, Colorado 80215

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 2004, 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.

Notary Public

My commission expires:

Fifth joint inventor: Philip Thompson

Signature: _____ Date: _____

Residence address: 4513 White Cherry Way, West Valley City, Utah 84120

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2004, before me, a notary public in and for said county, appeared **Philip Thompson**, 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.

Notary Public

My commission expires:

Sixth joint inventor: Wayne W. Hazen

Signature: Wayne W. Hazen Date: 29 March 2004

Residence address: 2655 Van Gordon Drive, Lakewood, Colorado 80215

STATE OF COLORADO)
) ss.
COUNTY OF JEFFERSON)

On this 29th day of MARCH, 2004, 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.

Roberta L. Mee
Notary Public

My commission expires:

My Commission Expires 08/22/2004

Seventh joint inventor: Christel M. A. Bemelmans

Signature: _____

Bemelmans

Date: 29 March 2004

Residence address: 24268 Matterhorn Drive, Indian Hills, Colorado 80454

STATE OF COLORADO)

) ss.

COUNTY OF JEFFERSON)

On this 29th day of MARCH, 2004, before me, a notary public in and for said county, appeared **Christel M. A. Bemelmans**, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and she acknowledges that she signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

Roberta L. Yee

Notary Public

My commission expires:

My Commission Expires 08/22/2004

SNELL & WILMER L.L.P.
One Arizona Center
400 East Van Buren
Phoenix, Arizona 85004-0001
(602) 382-6000