TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**
- New [✓]
- Resubmission (Non-Recoradation) [ ]
- Correction of PTO Error [ ]
- Corrective Document [ ]

**Conveyance Type**
- Assignment [✓]
- License [ ]
- Merger [ ]
- Change of Name [ ]
- Other [ ]

**Conveying Party(ies)**
- Name (line 1): Marsden, John O.
- Name (line 2):
- **Second Party**
  - Name (line 1): Brewer, Robert E.
  - Name (line 2):

**Receiving Party**
- Name (line 1): Phelps Dodge Corporation
- Name (line 2):
- Address (line 1): 2600 North Central Avenue
- Address (line 2):
- Address (line 3): Phoenix, Arizona/U.S.A. 85004
- City: Phoenix
- State/Country: Arizona
- Zip Code: 85004

**Domestic Representative Name and Address**
- Enter for the first Receiving Party only.
- Name:
- Address (line 1):
- Address (line 2):
- Address (line 3):
- Address (line 4):

**For Office Use Only**

07/30/2001 RHARDS 0000001A 0912521
01 FEED 46.00 DP
Correspondent Name and Address

Name: Wendy S. Neal
Address (line 1): Snell & Wilmer L.L.P.
Address (line 2): One Arizona Center
Address (line 3): 400 East Van Buren
Address (line 4): Phoenix, Arizona 85004

Area Code and Telephone Number: (602) 382-6334

Pages
Enter the total number of pages of the attached conveyance document including any attachments. # 5

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

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Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

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Number of Properties
Enter the total number of properties involved. # 1

Fee Amount
Fee Amount for Properties Listed (37 CFR 3.41): $ 40.00
Method of Payment: Enclosed ☑ Deposit Account ☐
(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: # 19-2814
Authorization to charge additional fees: Yes ☑ No ☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Wendy S. Neal, Reg. No. 45,615
Name of Person Signing

Signature

Date: July 25, 2001
CONVEYING PARTY(IES)

Enter additional conveying parties

Name (line 1) Robertson, Joanna M.
Execution Date: 07/24/2001

Name (line 2)

Name (line 1) Baughman, David R.
Execution Date: 07/24/2001

Name (line 2)

Name (line 1) Thompson, Philip
Execution Date: 07/24/2001

Name (line 2)

RECEIVING PARTY

Execute additional names of receiving parties attached

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Application Number(s) or Patent Number(s)

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)
**Conveying Party(ies)**

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**Receiving Party**

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ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR") of the address(es) indicated below, has/have invented subject matter disclosed in the patent application entitled: PROCESS FOR DIRECT ELECTROWINNING OF COPPER, which 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 and mailing address at 2600 North Central Avenue, Phoenix, Arizona 85004-3014 is desirous of acquiring an interest therein;

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, 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 a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

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 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: [Signature] Date: 07/24/01

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

Docket No. 97112.2900
Express Mail Label No. EL214098141US
STATE OF A\nCOUNTY OF Maricopa ss.

On this 24 day of July, 2001, 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:
10/27/01

Second joint inventor: Robert E. Brewer
Signature: Robert E. Brewer Date: 7/24/01
Residence address: 1498 West Lebanon Road, Safford, Arizona 85546

STATE OF A\nCOUNTY OF Maricopa ss.

On this 24 day of July, 2001, 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.

Deborah A. Giancaterin
Notary Public

My commission expires:
6-16-02

Docket No. 97112.2900
Express Mail Label No. EL214098141US
Third joint inventor: Joanna M. Robertson

Signature: [Signature]
Date: 7/24/01

Residence address: 1452 South Roadrunner Lane, Thatcher, Arizona 85552

STATE OF AZ
COUNTY OF Maricopa

On this 24th day of July, 2001, 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.

[Signature]
Notary Public

My commission expires:
6-16-02

Fourth joint inventor: David R. Baughman

Signature: [Signature]
Date: 7/24/01

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

STATE OF CO
COUNTY OF Arapahoe

On this 24th day of July, 2001, 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.

[Signature]
Notary Public

My commission expires: 6-16-02
Fifth joint inventor: Philip Thompson
Signature: [Signature]
Date: 7/24/01
Residence address: 4513 White Cherry Way, West Valley City, Utah 84120

STATE OF [AZ] ss.
COUNTY OF [Maricopa]

On this 24 day of July, 2001, 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: 6-16-02

Sixth joint inventor: Wayne W. Hazen
Signature: [Signature]
Date: 7/24/01
Residence address: 2655 Van Gordon Drive, Lakewood, Colorado 80215

STATE OF [AZ] ss.
COUNTY OF [Maricopa]

On this 24 day of July, 2001, 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: 6-16-02
Seventh joint inventor: Christel M. A. Bemelmans

Signature: ________________________ Date: 25 July 2001

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

STATE OF Colorado )
) ss.
COUNTY OF Jefferson )

On this ___ day of July, 2001, 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.

Maureen E. Dignan  
Notary Public

My commission expires: 4-8-2002