

Search query (2): [SP]: 1. a method for recovering a metal from ore or concentrate containing carbonaceous material by cyanidation leaching, the process comprising the step of: treating the ore or concentrate with at least one cationic surfactant, and cyanidation leaching of the treated ore or concentrate, wherein the cationic surfactant is a saturated or unsaturated alkyl amine or derivative thereof, wherein the alkyl amine is a primary, secondary, or tertiary alkyl amine or alkyl polyamine, and wherein the alkyl amine has an alkyl chain length of 14 to 40. 2. the method of claim 1, further comprising the step of adding a cyanide-containing solution to the ore or concentrate. 3. the method of claim 1, further comprising the step of roasting the ore or concentrate prior to the treating step. 4. the method of claim 1, wherein the ore or concentrate is in the form of an aqueous ore slurry with particle size 80 percent passing 30 mesh or finer and a pulp density of 5 percent to 80 percent. 5. the method of claim 1, further comprising the step of oxidizing the ore or concentrate prior to the treating step. 6. the method of claim 1, wherein the alkyl amine is animal based or vegetable based fatty alkyl amine. 7. the method of claim 1, wherein the alkyl amine is alkoxyated. 8. the method of claim 1, wherein the cationic surfactant is selected from the group consisting of a salt of the alkyl amine, an alkyl amine derivative, and combinations thereof. 9. the method of claim 1, wherein the cationic surfactant is an alkyl quaternary ammonium salt. 10. the method of claim 1, wherein the cationic surfactant is an alkyl amine oxide. 11. the method of claim 1, wherein the cationic surfactant is selected from the group consisting of an alkyl amide, amidoamine, imidazoline, and combinations thereof. 12. the method of claim 1, wherein the ore or concentrate is treated with the cationic surfactant and at least one other surfactant selected from the group consisting of a cationic surfactant different from the cationic surfactant, an anionic surfactant, a non-ionic surfactant, an amphoteric surfactant, and combinations thereof. 13. the method of claim 1, further comprising the step of adding a defoamer to the ore or concentrate prior to the step of cyanidation leaching.

Results: 8

Search history

Search PN=(WO2014170448) (Results 1)

1:

Search [SP]: 1. a method for recovering a metal from ore or concentrate containing carbonaceous material by cyanidation leaching, the process comprising the step of: treating the ore or concentrate with at least one cationic surfactant, and cyanidation leaching of the treated ore or concentrate, wherein the cationic surfactant is a saturated or unsaturated alkyl amine or derivative thereof, wherein the alkyl amine is a primary, secondary, or tertiary alkyl amine or alkyl polyamine, and wherein the alkyl amine has an alkyl chain length of 14 to 40. 2. the method of claim 1, further comprising the step of adding a cyanide-containing solution to the ore or concentrate. 3. the method of claim 1, further comprising the step of roasting the ore or concentrate prior to the treating step. 4. the method of claim 1, wherein the ore or concentrate is in the form of an aqueous ore slurry with particle size 80 percent passing 30 mesh or finer and a pulp density of 5 percent to 80 percent. 5. the method of claim 1, further comprising the step of oxidizing the ore or concentrate prior to the treating step. 6. the method of claim 1, wherein the alkyl amine is animal based or vegetable based fatty alkyl amine. 7. the method of claim 1, wherein the alkyl amine is alkoxyated. 8. the method of claim 1, wherein the cationic surfactant is selected from the group consisting of a salt of the alkyl amine, an alkyl amine derivative, and combinations thereof. 9. the method of claim 1, wherein the cationic surfactant is an alkyl quaternary ammonium salt. 10. the method of claim 1, wherein the cationic surfactant is an alkyl amine oxide. 11. the method of claim 1, wherein the cationic surfactant is selected from the group consisting of an alkyl amide, amidoamine, imidazoline, and combinations thereof. 12. the method of claim 1, wherein the ore or concentrate is treated with the cationic surfactant and at least one other surfactant selected from the group consisting of a cationic surfactant different from the cationic surfactant, an anionic surfactant, a non-ionic surfactant, an amphoteric surfactant, and combinations thereof. 13. the method of claim 1, further comprising the step of adding a defoamer to the ore or concentrate prior to the step of cyanidation leaching. (Results 8)

Title: HIGHER PURITY IMIDAZOLINE BASED AMPHOACETATE SURFACTANTS AND PROCESSES FOR THE PREPARATION THEREOF

Abstract: Source: US5744063A Imadazoline-based ampoacetates of higher purity, containing essentially negligible amounts of unalkylated amido amines, lower amounts of glycolic acid salts and monochloroacetate salts, superior to currently available conventional ampoacetates, are provided. This is demonstrated by their improved surface-active properties. Lower inherent irritation properties may be expected due to improved purity. The higher purity ampoacetates can be obtained via processes utilizing precise pH control during the reaction of imidazoline, or its open-chain derivatives, with alkylating agents, e.g. sodium monochloroacetate. The pH can be controlled by adding the base slowly or automatically in response to a pH metering device to maintain a constant pH, or by a series of staged additions which are calculated to maintain pH within a stated range. The reaction may also be carried out by conducting the initial hydrolysis of the imidazoline ring structure, followed by alkylation. These higher-purity ampoacetates contain essentially fully alkylated products and lower amounts of glycolic acid derivatives, even though a ratio of SMCA to substituted imidazoline, or its open-ring derivative, of less than 1.5:1.0 and close to 1.0:1.0 is used.

Classifications:

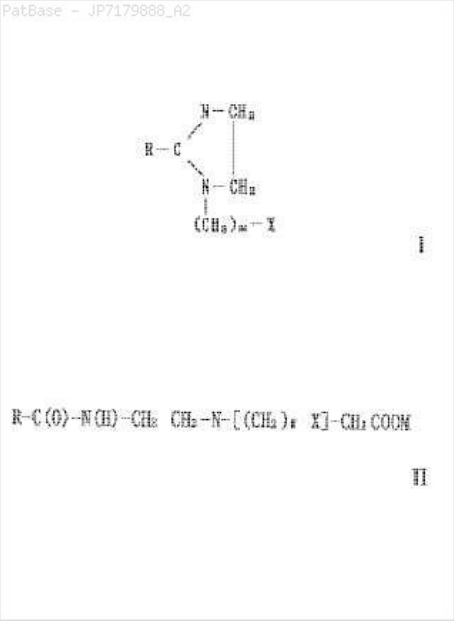
International (IPC 8-9): A61K8/00 A61K8/40 A61K8/44 A61K8/49 A61Q19/10 A61Q5/00 A61Q5/02 B01F17/00 B01F17/16 B01F17/22 B01F17/28 C07C233/36 C07C233/38 C07C233/46 C07D233/02 C07D233/04 C07D233/14 C11D1/40 C11D1/88 C11D3/43 C11D7/32 C11D7/50 (Advanced/Invention); A61K8/00 A61Q5/00 B01F17/16 B01F17/22 B01F17/28 C11D1/10 (Advanced/Non-invention)

International (IPC 1-7): A01N43/50 A61K7/00 A61K7/06 A61K7/50 B01F17/00 B01F17/16 B01F17/18 B01F17/22 B01F17/32 B01F17/32 C07C231/12 C07C233/36 C07C233/38 C07C233/46 C07C33/46 C07D233/00 C07D233/02 C07D233/04 C07D233/14 C11D1/88

CPC: Y10S516/915 C11D7/5022 A61K8/442 A61K8/4946 A61Q5/02 A61Q19/10 B01F17/0042 B01F17/0085 C07C233/36 C07C233/38 C07D233/02 C11D1/40 C11D1/88 C11D3/43 C11D7/3209 C11D7/3218 C11D7/5013 C11D7/5018

European: A61K7/50K12 A61K8/44D A61K8/49F1 A61Q19/10 A61Q5/02 B01F17/00K B01F17/00Z C07C233/36 C07C233/38 C07D233/02 C11D1/40 C11D1/88 C11D3/43 C11D7/32A C11D7/32B C11D7/50A4 C11D7/50A6 C11D7/50A8 K61K201/928

US: 252/356 252/357 510/500 510/501 516/68 516/69 516/9 516/915 548/352.1 562/564



Family:

Publication number	Publication date	Application number	Application date
AT265884 E	20040515	AT19940402226T	19941005
AT466653 E	20100515	AT19940075976T	19941005
AU199474471 A1	19950504	AU19940074471	19941006
AU680933 B2	19970814	AU19940074471	19941006
BRPI9404065 A	19951017	BR1994PI04065	19941011
CA2132289 AA	19950413	CA19942132289	19940916
CN1046212 C	19991110	CN19941017119	19941011
CN1104929 A	19950712	CN19941017119	19941011
DE69433755 D1	20040609	DE19946033755	19941005
DE69433755 T2	20050407	DE19946033755T	19941005
DE69433755 T3	20100923	DE19946033755T	19941005
DE69435293 D1	20100617	DE19946035293	19941005
EP0647469 A2	19950412	EP19940402226	19941005
EP0647469 A3	19960403	EP19940402226	19941005
EP0647469 B1	20040506	EP19940402226	19941005
EP0647469 B2	20100505	EP19940402226	19941005
EP1449577 A1	20040825	EP20040075976	19941005
EP1449577 B1	20100505	EP20040075976	19941005
ES2215993 T3	20041016	ES19940402226T	19941005
ES2215993 T5	20100907	ES19940402226T	19941005
ES2341244 T3	20100617	ES20040075976T	19941005
JP2935641 B2	19990816	JP19940245424	19941011
JP7179888 A2	19950718	JP19940245424	19941011
KR19950011601 A	19950515	KR19940025834	19941010
US5744063 A	19980428	US19970801313	19970218
US5952291 A	19990914	US19980055368	19980406
US6057282 A	20000502	US19990378841	19990823

Priority:

CA19942132289 19940916	EP19940402226 19941005	US19990378841 19990823
US19980055368 19980406	US19970801313 19970218	US19930135094 19931012

Probable Assignee: RHODIA OPERATIONS

Assignee(s): (std): RHODIA ; RHONE POULENC INC ; RHONE PLAN SUPESHIYARITEII CHE ; RHONE POULENC SPEC CHIM ; RHONE INC

Assignee(s): RHONE PLAN SUPESHIYARITEII CHEM CO ; ROODEIA INC ; RHODIA OPERATIONS ; TRACY DAVID J ; RICCA JEAN MARC ; RHONE POULENC SPECIALTY CHEMICALS CO ; RHODIA INC ; RHODIA INC CRANBURY ; DESAI BHARAT ; LEES PETER

Inventor(s): (std): BAARATSUTO DEZAI ; DEBITSUDO JIEI TOREISHII ; PIITAA RIIZU ; TRACY DAVID J ; RICCA JEAN MARC ; RICCA J M ; JIYANNMARUKU RISA ; LEES PETER ; LEES P ; DESAI BHARAT ; DESAI B

Inventor(s): DAVID J TRACY ; BHARAT DESAI ; JEAN MARC RICCA ; P LEES ; PETER LEES ; J M RICCA ; JANNMARUKU RISA ; DEBITSUDO JEI TOREISHII ; B DESAI

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; FABRE MADELEINE FRANCE; BOITTIAUX VINCENT; NISHIYAMA MASAYA; HIGUCHI SOTOJI; YOSHIDA TSUGUO; ISHIDA TAKASHI

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

Title: INHIBITION OF THE DEPLETION OF METAL VALUES FROM PREGNANT LIXIVANT SOLUTIONS

Abstract: Source: US2003228244A Methods for inhibiting depletion of mineral values from pregnant lixiviant solutions comprise contacting the requisite metal ore with a preg-robbing inhibition agent (PRIA) comprising (I) alkyl polyglucoside surfactants; (II) imidazoline based amphoteric surfactants; and (III) hydroformylation products of lower (C2-C8) alkanes in an organic solvent medium.

Classifications:
International (IPC 8-9): C22B1/00 C22B11/00 C22B11/08 C22B3/04 C22B3/12 (Advanced/Invention); C22B1/00 C22B11/00 C22B3/00 (Core/Invention); C22B (Subclass/Non-invention)
International (IPC 1-7): C22B1/00 C22B11/08 C22B3/04
CPC: Y02P10/234 C22B3/04 C22B1/00 C22B11/08
European: C22B1/00 C22B11/08 C22B3/00A C22B3/04
US: 423/25 423/27 423/29 423/30 423/31

Family:

Publication number	Publication date	Application number	Application date
AR040436 AA	20050406	AR2003P101928	20030530
AU2003237208 AA	20031222	AU20030237208	20030522
AU2003237208 BB	20081120	AU20030237208	20030522
CA2488146 AA	20041202	CA20032488146	20030522
CA2488146 C	20110712	CA20032488146	20030522
CL2003001149 A1	20040423	CL20030001149	20030604
CL45092 B	20090415	CL20030001149	20030604
CN100383263 C	20080423	CN20038018894	20030522
CN1675386 A	20050928	CN20038018894	20030522
MY134901 A	20071231	MY20030002085	20030604
NZ537325 A	20061027	NZ20030537325	20030522
PE02392004 A1	20040415	PE20030000547	20030603
US2003228244 AA	20031211	US20020163700	20020605
US2003228245 AA	20031211	US20030417910	20030417
US7157062 BB	20070102	US20030417910	20030417
WO03104503 A1	20031218	WO2003US16184	20030522
ZA200410244 A	20060726	ZA20040010244	20041220

Priority:
US20020163700 20020605 US20030417910 20030417 WO2003US16184 20030522

Probable Assignee: GE BETZ INC

Assignee(s): (std): GE BETZ INC ; PEREZ LIBARDO A ; POLIZZOTTI DAVID M

Assignee(s): BETZDEARBORN INC

Inventor(s): (std): DAVID M POLIZZOTTI ; LIBARDO A PEREZ ; PEREZ LIBARDO A ; POLIZZOTTI DAVID M ; POLIZZOTTI DAVID M

Agent(s): PHILLIPS ORMONDE FITZPATRICK; CRAIG WILSON AND CO; VILLASECA; WEGMAN HESSLER AND VANDERBURG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

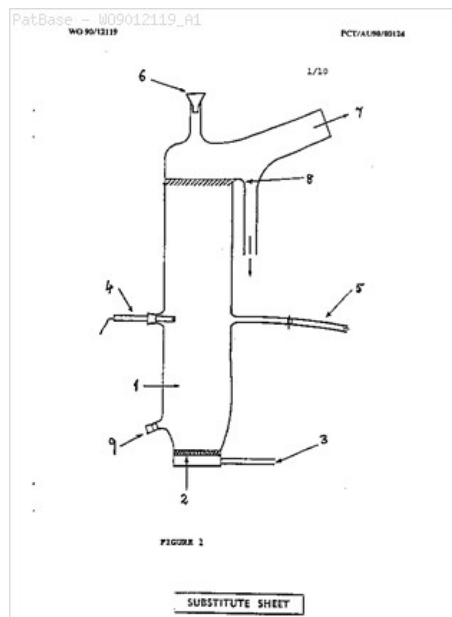
Title: ION FLOTATION WITH CATIONIC REAGENTS

Abstract: A method for ion flotation, especially in the extraction of gold uses as the flotation reagent a cationic surfactant of formula (I), wherein R<1> is a C10 - C18 alkyl group, R<3> is a lower alkyl group, or benzene ring optionally substituted with one or more lower alkyl groups, and R<2> and R<4> are lower alkyl groups; or R<1>, R<2> and R<4> are methyl groups; R<3> is a benzene ring substituted with a C10 - C18 alkoxy group; and X is a halogen atom.

Classifications:**International (IPC 8-9):** C22B11/08 C22B3/20 C22B3/22

C22B3/44 (Advanced/Invention);

C22B11/00 C22B3/00 (Core/Invention)

International (IPC 1-7): B03D1/01 C22B11/08 C22B3/20 C22B3/22 C22B3/44**CPC:** Y02P10/234 C22B11/08 C22B3/22 C22B3/44**European:** C22B11/08 C22B3/00D1 C22B3/00D6 C22B3/22 C22B3/44**Family:**

Publication number	Publication date	Application number	Application date
AU199054168 A1	19901105	AU19900054168	19900403
BRPI9007269 A	19911126	BR1990PI07269	19900403
CA2051097 AA	19911002	CA19902051097	19900403
OA9517 A	19921115	OA19910060080	19911001
WO9012119 A1	19901018	WO1990AU00124	19900403
ZA9002643 A	19910626	ZA19900002643	19900405

Priority:

AU1989PJ03528 19890405 AU19900054168 19900403 WO1990AU00124 19900403

Probable Assignee: BROKEN HILL PTY CO LTD**Assignee(s):** (std): BROKEN HILL PTY CO LTD ; BLOKEN HILL PROPRIETARY COMPAN**Assignee(s):** BROKEN HILL PROPRIETARY CO AUSTR LTD ; BROKEN HILL PROPRIETARY CO AUSTRALIE LTD ; BLOKEN HILL PROPRIETARY CO LTD ; BROKEN HILL PROPRIETARY CO LTD ; THE BROKEN HILL PROPRIETARY COMPANY LIMITED ; THE BLOKEN HILL PROPRIETARY COMPANY LIMITED ; THE BROKEN HILL PROPRIETARY COMPANY LIMITED AUSTRALIE ; SMITHAM JAMES B ; NICOL STUART K ; ENGEL MALCOLM D**Inventor(s):** (std): ENGEL MALCOLM DAVID ; JAMES BRYER SMITHAM ; MALCOLM DAVID ENGEL ; NICOL STUART KENNETH ; SMITHAM JAMES BRYER ; STUART KENNETH NICOL ; SMITHAM JAMES B ; NICOL STUART K ; ENGEL MALCOLM D**Agent(s):** DAVIES COLLISON CAVE; RICHES MCKENZIE AND HERBERT LLP**Designated states:** AU BF BJ BR CA CF CG CM GA ML MR SN SU TD TG US

Title: PREVENTION OF COPPER DISSOLUTION DURING CYANIDATION OF GOLD ORES

Abstract: Source: US5061459A A process for treating copper containing precious metal ores prior to cyanidation and recovery of the precious metal eg gold. The process involves addition to the ore before or after milling of a water soluble or water dispersible surface active agent in the form of a fatty alkyl amine preferably an ethoxylated fatty alkyl amine. The agent reduces the high cyanide consumption, which is caused by copper dissolution, by passivating the mineral surface.

Classifications:

International (IPC 8-9): C22B11/00 C22B11/08 (Advanced/Invention);
C22B11/00 (Core/Invention);
C22B (Subclass/Invention)

International (IPC 1-7): B01D11/02 C22B11/00 C22B11/08

CPC: C22B11/08

European: C22B11/08

US: 423/29 423/32

Family:

Publication number	Publication date	Application number	Application date
AU198943851 A1	19900503	AU19890043851	19891027
CA2001632 AA	19900429	CA19892001632	19891027
GB8825366 A0	19881130	GB19880025366	19881029
US5061459 A	19911029	US19890428277	19891027
ZA8908235 A	19910626	ZA19890008235	19891030

Priority:

CA19892001632 19891027 GB19880025366 19881029 US19890428277 19891027

Probable Assignee: BRITISH PETROLEUM CO PLC

Assignee(s): (std): BRITISH PETROLEUM CO PLC

Assignee(s): BRITISH PETROLEUM CO PLC THE ; THE BRITISH PETROLEUM COMPANY P L C ; THE BRITISH PETROLEUM COMPANY PLC ; CRATHORNE ELIZABETH A ; EDWARDS RAYMOND ; BENNETT CHARLES A

Inventor(s): (std): BENNETT CHARLES A ; BENNETT CHARLES ANDREW ; CHARLES ANDREW BENNETT ; CRATHORNE ELIZABETH A ; CRATHORNE ELIZABETH ANNE ; EDWARDS RAYMOND ; ELIZABETH ANNE CRATHORNE ; RAYMOND EDWARDS

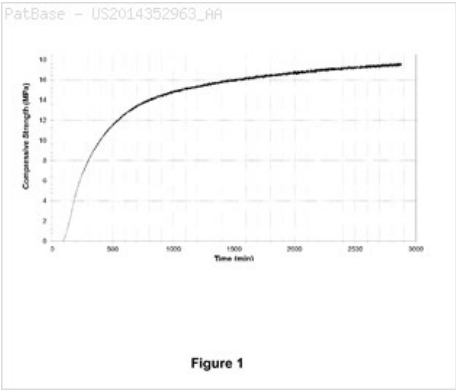
Agent(s): GRIFFITH HACK; FETHERSTONHAUGH AND CO

Title: POWDER DEFOAMING COMPOSITIONS AND METHODS OF REDUCING GAS ENTRAINMENT IN FLUIDS

Abstract: Source: US2014352963A Powder defoaming compositions comprising one or more water soluble alkali salts, and one or more defoaming agents. Also disclosed are compositions including flowable materials and a defoaming composition, and methods for reducing the amount of gas present in a fluid using said defoaming compositions.

Classifications:

International (IPC 8-9): B01D19/04 C04B24/00 C04B24/28 C04B28/00 C04B28/02 C04B40/00 C04B7/00 C09K8/467 C09K8/48 E21B33/14 (Advanced/Invention); C04B103/50 (Advanced/Non-invention)
CPC: C04B40/0039 C04B2103/50 C09K8/48 C09K8/467 B01D19/0495 E21B33/14 C04B24/281 C04B7/00 C04B28/02
US: 106/810 166/292 516/116



Family:

Publication number	Publication date	Application number	Application date
AR087156 AA	20140226	AR2012P102163	20120618
EP2720988 A1	20140423	EP20120801125	20120615
EP2720988 A4	20150304	EP20120801125	20120615
US2014352963 AA	20141204	US20120125321	20120615
WO12174405 A1	20121220	WO2012US42714	20120615

Priority:

US20110498138P 20110617 US20120125321 20120615 WO2012US42714 20120615

Probable Assignee: KEMIRA OYJ

Assignee(s): (std): BAVA LUCIANA ; BAVA LUCIANNA ; COCQUERELLE FREDERIQUE ; KEMIRA OYJ ; MAHMOUDKHANI AMIR H ; WILSON ROBERT

Inventor(s): (std): BAVA LUCIANA ; BAVA LUCIANNA ; COCQUERELLE FREDERIQUE ; MAHMOUDKHANI AMIR H ; WILSON ROBERT ; WILSON ROBERT E

Agent(s): HALLYBONE HUW GEORGE; KAUFMAN REBECCA ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD FOR IMPROVING INCLUSION GOLD LEACHING RATE

Abstract: Source: CN103122415A The invention provides a method for improving the inclusion gold leaching rate, which comprises the following steps of: (1) screening and crushing: performing coarse crushing, intermediate crushing and fine crushing of inclusion gold to obtain a crushing qualified product; (2) roasting: performing oxidizing roasting of the crushing qualified product by use of oxygen-rich air; (3) finely grinding; (4) carrying out staged leaching: adding protective alkali calcium oxide and sodium cyanide, and leaching in two stages; and (5) separating and extracting to obtain refined gold. The method for improving the inclusion gold leaching rate provided by the invention has a simple technological process, wide in ore applicability and large in treatment capacity; the conditions of the steps such as roasting, staged leaching and the like are easy to control; and the inclusion gold leaching rate reaches about 83 percent finally, and the gold content of leaching residue is 0.81g/t.

Classifications:

International (IPC 8-9): C22B1/02 C22B11/00 C22B3/04 (Advanced/Invention)

CPC: Y02P10/234

Family:

Publication number	Publication date	Application number	Application date
CN103122415 A	20130529	CN201310079558	20130313
CN103122415 B	20140528	CN201310079558	20130313

Priority:

CN201310079558 20130313

Probable Assignee: SHANDONG QIANSHUN MINING METALLURG TECHNOLOGY CO LTD

Assignee(s): (std): SHANDONG QIANSHUN MINING METALLURG TECHNOLOGY CO LTD ; SHANDONG QIANSHUN MINING TECHNOLOGY CO LTD

Assignee(s): SHANDONG QIANSHUN MINING METALLURGY TECHNOLOGY CO ; SHANDONG QIANSHUN MINING TECHNOLOGY CO

Inventor(s): (std): FAN YAN ; FENG JIE ; HAN JINGZENG ; LI YI

Title: USE OF CATIONIC SURFACTANTS IN THE CYANIDATION OF REFRACTORY CARBONACEOUS ORES FOR RECOVERY OF METALS

Abstract: Source: US2016024613A A process for recovery of precious metals from ores or concentrates containing refractory carbonaceous material by cyanidation leaching. The process involves addition to the ores or concentrates at least one cationic surfactant before or during the addition of cyanide-containing solution. The agent enables the recovery of precious metals by cyanidation from high preg-robbing carbonaceous ores and improves the recovery of precious metals by cyanidation from medium to low preg-robbing carbonaceous ores. The agent also prevents froth and foaming formation during the cyanidation process.

Classifications:
International (IPC 8-9): C22B1/00 C22B1/02 C22B11/08 C22B3/00 C22B3/16 (Advanced/Invention)
CPC: C22B1/02 C22B3/16 C22B11/04 C22B11/08 C22B1/00
US: 75/744

Family:

Publication number	Publication date	Application number	Application date
AU2014255715 AA	20141023	AU20140255715	20140417
CA2908336 AA	20150928	CA20142908336	20140417
CL2015003079 A1	20160422	CL20150003079	20151016
CN105121675 A	20151202	CN201480020822	20140417
DOP2015000258 A	20151231	DO20150000258	20151009
EP2986745 A1	20160224	EP20140718122	20140417
US2016024613 AA	20160128	US20140782356	20140417
WO14170448 A1	20141023	WO2014EP57932	20140417

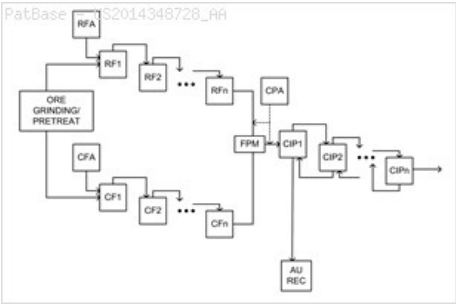
Priority:
EP20130175107 20130704 EP20140718122 20140417 US20130813307P 20130418
WO2014EP57932 20140417 US20140782356 20140417

Probable Assignee: AKZO NOBEL CHEMICALS INT BV
Assignee(s): (std): AKZO NOBEL CHEMICALS INT BV
Assignee(s): CHOI YEONUK ; JIANG JUNHUA ; ZHOU QIONG
Inventor(s): (std): CHOI YEONUK ; JIANG JUNHUA ; ZHOU QIONG
Inventor(s): JUNHUA JIANG ; QIONG ZHOU ; YEONUK CHOI
Agent(s): SPRUSON AND FERGUSON; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; SARGENT AND KRAHN; AKZO NOBEL IP DEPARTMENT
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD FOR IMPROVING GOLD RECOVERY

Abstract: Source: US2014348728A Disclosed are methods and compositions for improving metal extraction processes by introducing at least one cationically charged compound selected from a group consisting of amines, particularly quaternary amines such as alkyldimethylbenzylammonium chlorides (ADBAC compounds), polyamines and other suitable cationic organic materials, and mixtures thereof, for neutralizing and/or coagulating excess anionic organic compounds including, for example, flotation reagents, surfactants, polymers, flotation reagent by-products and/or anti-scalant additives found in metal concentrate streams, and thereby reduce the downstream fouling of the activated carbon by these compounds.

Classifications:
International (IPC 8-9): C22B3/00 C22B59/00 (Advanced/Invention)
CPC: C22B11/04 C22B3/24 Y02P10/234
US: 423/25 423/26 423/27 423/658.5 75/743 75/744



Family:

Publication number	Publication date	Application number	Application date
CL2014002262 A1	20150508	CL20140002262	20140826
US2014348728 AA	20141127	US20130865979	20130418
US8999034 BB	20150407	US20130865979	20130418

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US20120635290P 20120418 US20130865979 20130418

Probable Assignee: CHEMTREAT INC
Assignee(s): (std): CHEMTREAT INC ; RICHARDSON JOHN
Inventor(s): (std): BEDINGER ROBERT ; GOTTSCHALK KEVIN ; RICHARDSON JOHN
Agent(s): CLARKE MODET AND CO CHILE LIMITADA; OLIFF PLC