

PatBase - Search results 07 July 2017

Search query (1): PN=(US5110455 OR US6210648 OR RU2426598 OR RU2432999 OR EP0261847 OR CN101176862 OR US3137649 OR US4702824 OR US4778520)

Results: 9

15-007055

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Search history

Search PN=(US5110455 OR US6210648 OR RU2426598 OR RU2432999 OR EP0261847 OR CN101176862 OR US3137649 OR US4702824 OR
1: US4778520) (Results 9)

Title: SEPARATION OF SULFIDE ORES

Abstract: Source: US3137649A (Claim 1) 1. In a process for the separation of a first sulfide mineral concentrate obtained by froth flotation in the presence of an organic collector and which contains said first sulfide mineral together with a second sulfide mineral which is depressed by cyanide depressants, the improved method for recovering said first sulfide mineral in more concentrated form which comprises: adjusting the pH of said concentrate to a value not greater than adding to the nonbasic concentrate a small amount of hydrogen peroxide, then after an interval of 1 to 10 minute-s,, adding said cyanide depressant, subjecting the mixture to differential froth flotation, and taking off said first sulfide mineral as float from, tailings containing said second sulfide mineral. _2.

Classifications:

International (IPC 8-9): B03D1/001 (Advanced/Invention);
B03D1/001 (Core/Invention)

International (IPC 1-7): B03D1/06

CPC: B03D1/012 B03D1/002 B03D2201/06 B03D2203/02

European: B03D1/001

US: 209/11 209/167

Family:

Publication number	Publication date	Application number	Application date
US3137649 A	19640616	US19620172867	19620209

Priority:

US19620172867 19620209

Probable Assignee: SHELL OIL CO

Assignee(s): (std): SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): DE BENEDICTIS ALDO ; HILLS GERALD J

Inventor(s): BENEDICTIS ALDO DE

Title: Ore and coal beneficiation method

Abstract: Source: US4702824A This invention relates to a method of beneficiating coal or mineral ores containing a metaliferous sulfide, e.g. iron sulfide or pyrite, and comprises removal of unwanted components, including pyrite, from such ores by subjecting an aqueous pulp of the pulverized mineral or coal to a froth flotation process in which pyrites are depressed by a depressant composition comprising xanthan gum, a hydroxycarboxylic acid and sodium silicate. The process is especially useful for removal of pyrite from a solid carbonaceous fuel, e.g., coal containing pyrite, and for the recovery of non-ferrous metal concentrates from ores containing pyrite. The coal or ore may be subjected to a mild preoxidation treatment to enhance sulfide removal in the subsequent froth flotation operation.

Classifications:

International (IPC 8-9): B03D1/02 (Advanced/Invention);

B03D1/00 (Core/Invention)

International (IPC 1-7): B03D1/02

CPC: B03D1/02

European: B03D1/02

US: 209/167 252/61 75/2 75/711

Family:

Publication number	Publication date	Application number	Application date
US4702824 A	19871027	US19860902928	19860902

Priority:

US19850752970 19850708

US19860902928 19860902

Probable Assignee: ABADI KHODABANDEH

Assignee(s): (std): ABADI KHODABANDEH

Inventor(s): (std): ABADI KHODABANDEH

Title: SEPARATION OF MATTER BY FLOATATION

Abstract: Source: US4830738A Matter is floated to the surface of a liquid by bonding ions to the surface of the matter to give the matter a charge, and forming a froth with the aid of a frothing agent having groups of opposite charge to the ions so that the frothing agent bonds to the matter and is carried in the froth to the surface of the liquid. By removing the froth the matter can be separated from any inert matter present in the liquid. The oxidation state of the surface of the matter may be changed before bonding takes place with the ions to one which facilitates that bonding. The matter can be particulate or dissolved ions. For example, uranium dioxide particles are oxidized with hydrogen peroxide, sodium carbonate added to produce a negatively charged uranyl carbonate complex and a froth formed with the aid of cetyl trimethylammonium bromide. Cationic groups in the latter bond to the uranyl carbonate complex causing the uranyl carbonate complex to be concentrated in the froth at the surface of the liquid. The froth is then skimmed off to remove the uranium dioxide particles.

Classifications:

International (IPC 8-9): B03B1/04 B03D1/001 B03D1/002 B03D1/02 G21C19/44 G21C19/46 (Advanced/Invention); B03B1/00 B03D1/00 B03D1/001 B03D1/002 G21C19/42 (Core/Invention)

International (IPC 1-7): B03D1/02 C01G43/00 C22B60/02 G21C19/44 G21C19/46

CPC: B03D1/01 B03D2201/04 B03D2203/04 B03D1/02 B03B1/04 B03D1/002

European: B03B1/04 B03D1/001 B03D1/002 B03D1/02

US: 209/166 210/704 252/61 423/256 423/261 423/4

Family:

Publication number	Publication date	Application number	Application date
DE3779851 D1	19920723	DE19873779851	19870911
DE3779851 T2	19921224	DE19873779851T	19870911
EP0261847 A2	19880330	EP19870308052	19870911
EP0261847 A3	19900207	EP19870308052	19870911
EP0261847 B1	19920617	EP19870308052	19870911
GB2195271 A1	19880407	GB19860022843	19860923
GB2195271 B2	19900425	GB19860022843	19860923
GB8622843 A0	19861029	GB19860022843	19860923
JP2596941 B2	19970402	JP19870233595	19870917
JP63104667 A2	19880510	JP19870233595	19870917
US4830738 A	19890516	US19870095864	19870914

Priority:

GB19860022843 19860923

Probable Assignee: BRITISH NUCLEAR FUELS PLC

Assignee(s): (std): BRITISH NUCLEAR FUELS PLC

Assignee(s): BRITISH NUCLEAR FUELS PLC RISLEY WARRINGTON CHESHI ; BRITISH NUCLEAR FUELS PLC RISLEY WARRINGTON CHESHIRE GB

Inventor(s): (std): TAYLOR JOHN M ; TAYLOR JOHN MARTIN ; WHITE DAVID A ; WHITE DAVID ANTHONY ; JIYON MAATEIN TEIRAA ; DEIBUITSUDO ANSONII HOWAITO

Inventor(s): WHITE DAVID ANTHONY LONDON W10 6PJ GB ; TAYLOR JOHN MARTIN RAMSBOTTONLANCASHIRE GB ; DAVID ANTHONY WHITE ; JOHN MARTIN TAYLOR

Designated states: DE FR IT

Title: PROCESS FOR LEACHING ZINC FROM PARTIALLY DESULFURIZED ZINC CONCENTRATES BY SULFURIC ACID

Abstract: Source: US4778520A A process comprises leaching zinc oxide either separately or in conjunction with iron oxides from a partially desulfurized zinc bearing sulfide ore of concentrate. The ore is pretreated to eliminate in a controlled manner sulfur-sulfur-sulfide in the ore yet leaving sufficient residual sulfur-sulfide in the material such that iron values are maintained substantially wholly in the ferrous state, while converting zinc sulfide to zinc oxide without formation of FeO-ZnO complexes. The partially desulfurized material may be selectively leached with a sulfuric acid containing solution under neutral leach conditions to dissolve thereby preferentially the zinc oxide over the iron oxide. Alternatively the material may be leached with a higher concentration of sulfuric acid containing solution to dissolve preferentially zinc oxide and iron oxide simultaneously. The leach liquor may be subsequently treated to electrolytically remove zinc.

Classifications:

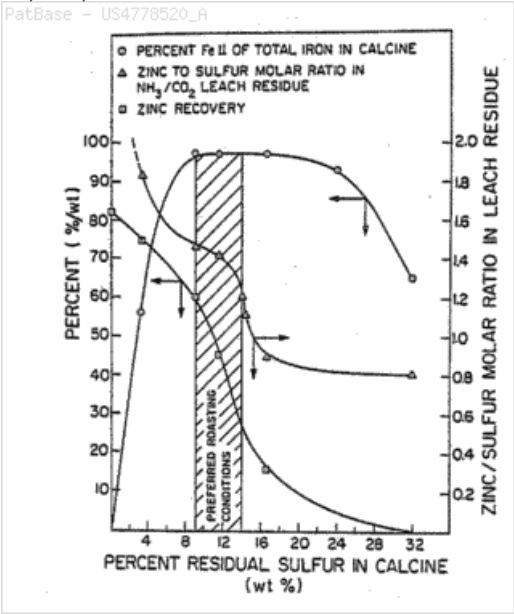
International (IPC 8-9): C22B19/00 C22B19/02
C22B19/34 (Advanced/Invention);
C22B19/00 (Core/Invention)

International (IPC 1-7): C22B19/00

CPC: Y02P10/234 C22B19/22 C22B19/02 C22B19/34

European: C22B19/02 C22B19/22 C22B19/34

US: 204/112 204/118 205/608 423/100 423/101 423/109 423/110
423/139 423/140 423/150 423/150.5 423/153 75/101BE 75/101R
75/108 75/120 75/121 75/2 75/419 75/9



Family:

Publication number	Publication date	Application number	Application date
US4778520 A	19881018	US19870030114	19870326

Priority:

US19870030114 19870326

Probable Assignee: UNIV WATERLOO

Assignee(s): (std): UNIV WATERLOO

Assignee(s): UNIVERSITY OF WATERLOO ; OF WATERLOO UNIV ; OF WATERLOO WATERLOO ONTARIO CANADA N2L 3G1 AN INS ; OF WATERLOO WATERLOO ONTARIO CANADA N2L 3G1 AN INSTITUTION OF HIGHER LEARNING OF ONTARIO UNIV

Inventor(s): (std): SPINK DONALD R ; STEIN JERRY Y

Title: Method for processing gold-bearing sulfide ores involving preparation of a sulfide concentrate

Abstract: Source: US5653945A Provided is a method for processing a gold-bearing sulfide ore which involves maintaining the ore in a substantially oxygen free environment, preferably beginning with comminution of the ore and ending when a desired final concentrate, enriched in sulfide minerals, is obtained by flotation. In one embodiment, nitrogen gas is used to substantially prevent contact between the ore and air during comminution of the ore and during flotation operations. It is believed that oxygen gas present in air detrimentally affects the recovery of sulfide minerals in a flotation concentrate through surface oxidation of sulfide mineral particles. The use of a gas such as nitrogen can significantly reduce the potential for such surface oxidation. Additionally, gases separated from an oxygen plant may be beneficially used, with an oxygen gas stream being used, for example, for pressure oxidation of sulfide mineral materials, and with a nitrogen gas stream being used in comminution and/or flotation operations, resulting in advantageous use of a nitrogen gas by-product stream which has previously been vented to the atmosphere as waste.

Classifications:

International (IPC 8-9): B03C1/30 B03D1/00 B03D1/02 B03D1/08 B03D1/03/02 C01G1/00 C01G7/00 C07C1/04 C22B1/00 C22B1/11 C22B11/00 (Advanced/Invention); C01G1/00 C01G7/00 (Advanced/Non-invention); B03D1/00 C01G1/00 C01G7/00 C07C1/00 C22B1/00 C22B11/00 (Core/Invention)

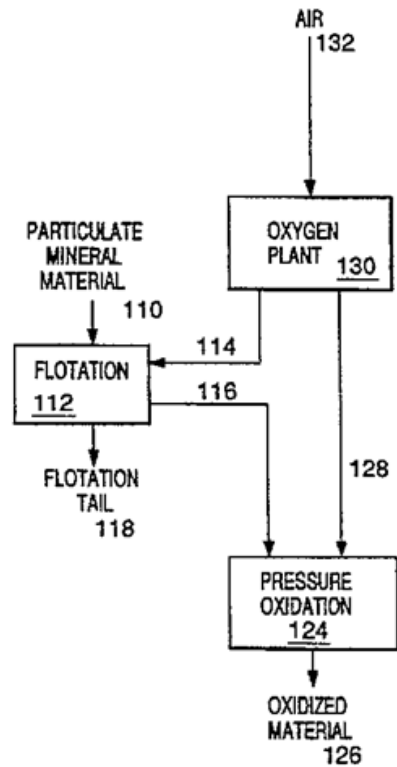
International (IPC 1-7): B01D11/00 B01D3/00 B03C1/30 B03D01/00 B03D1/00 B03D1/02 B03D1/14 C01G07/00 C01G7/00 C07C01/04 C07C1/04 C22B1/04 C22B11/00 C22B3/00

CPC: B03D1/18 B03D1/00 B03D1/02 B03D1/1406 B03D1/24 C22B1/00 C22B11/00 C22B11/04 Y02P10/234 Y02P10/236

European: B03D1/00 B03D1/02 C22B1/00 C22B11/00 C22B11/04

US: 209/166 209/167 423/26 423/27 423/29 423/30

PatBase - US5653945_R



Family:

Publication number	Publication date	Application number	Application date
AR001644 A1	19971126	AR19960336196	19960417
AU199654274 A1	19961107	AU19960054274	19960322
AU199850836 A1	19980515	AU19980050836	19971023
AU699155 B2	19981126	AU19960054274	19960322
AU721701 B2	20000713	AU19980050836	19971023
BRPI9608164 A	19990209	BR1996PI08164	19960322
CA2217457 AA	19971003	CA19962217457	19960322
CA2217457 C	20040203	CA19962217457	19960322
CA2264865 AA	19990302	CA19972264865	19971023
CA2264865 C	20020813	CA19972264865	19971023
CL1996000599 A1	19970327	CL19960000599	19960417
CL1997002267 A1	19980727	CL19970002267	19971023
CL45206 B	20090520	CL19970002267	19971023
EA000902 B1	20000626	EA19990000402	19971023
EA199900402 A1	19991028	EA19990000402	19971023
ID24295 A	20000713	ID19990000240D	19971023
MX9708036 A1	19980331	MX19970008036	19960322
NZ306105 A	19991129	NZ19960306105	19960322
PE9096 A1	19960401	PE19950273140	19950706
US5653945 A	19970805	US19950423839	19950418
US5837210 A	19981117	US19960735783	19961023
US6210648 BA	20010403	US19990284162	19990408
WO9633146 A1	19961024	WO1996US03885	19960322
WO9817395 A1	19980430	WO1997US18958	19971023

Priority:

US19950423839 19950418 US19960735783 19961023 WO1996US03885 19960322
 US19990284162 19990408 US19980423839 19980418 WO1997US18958 19971023

Probable Assignee: NEWMONT USA LTD

Assignee(s): (std): GATHJE JOHN C ; NEWMONT GOLD CO ; NEWMONT MINING CORP ; SANTA FE PACIFIC GOLD CORP ;
 SANTE FE PACIFIC GOLD CORP ; SIMMONS GARY L

Assignee(s): NEWMONT USA LTD ; NEWMONT U 1700 LINCOLN STREET SUITE 2800DE NVSALTD ; NEWMONT GOLD CO 1700 LINCOLN STREET SUTIE ; NEWMONT GOLD CO A DELAWARE CORP

Inventor(s): (std): GARY L SIMMONS ; GATHJE JOHN C ; SIMMONS GARY L ; JOHN C GATHJE

Agent(s): ALLENS ARTHUR ROBINSON; ALLENS PATENT AND TRADE MARK ATTORNEYS; JOHNSON ERNEST PETER; VILLASECA

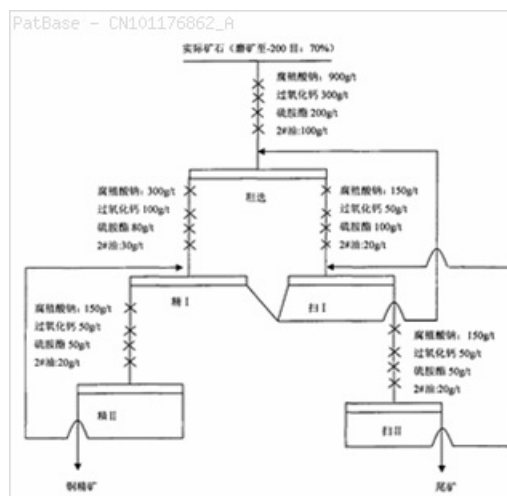
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

Title: Highly effective composite restrainer of ferro-sulphur ore in complex vulcanizing ore and method of use thereof

Abstract: Source: CN101176862A An efficient combination of inhibitors and their application methods complex sulphide ore pyrite used. The inhibitor by a calcium peroxide, sodium humic acid composition; inhibitors of the present invention can selectively inhibit complex iron sulfide minerals, especially pyrrhotite, arsenopyrite, pyrite and other minerals have better inhibitory properties, it is a highly selective inhibitor. Than the current lime, cyanide, dichromate, potassium permanganate, sodium sulfide, sodium sulfite, zinc sulfate and trisodium phosphate and other inhibitor with low consumption, good effect, no pollution and other advantages.

Classifications:

International (IPC 8-9): B03B1/00 B03D1/004 B03D1/012
B03D1/018 (Advanced/Invention);
B03D101/02 B03D101/04 B03D101/06 B03D103/02 (Advanced/Non-invention);
B03B1/00 B03D1/004 B03D1/018 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN101176862 A	20080514	CN200710192426	20071127

Priority:

CN200710192426 20071127

Probable Assignee: UNIV CENTRAL SOUTH
Assignee(s): (std): CENTRAL SOUTH UNIV ; UNIV CENTRAL SOUTH
Assignee(s): CENTRAL SOUTH UNIVERSITY
Inventor(s): (std): YUEHUA HU ; WEI SUN ; HONGJUN HUANG
Inventor(s): SUN WEI ; HUANG HONGJUN ; HU YUEHUA

Title: METHOD OF FLOTATION SEPARATION OF COLLECTIVE LEAD-COPPER CONCENTRATE

Abstract: Source: RU2432999C FIELD: process engineering. SUBSTANCE: invention relates to dressing of minerals and may be used in flotation concentration of polymetallic ores and may be used in flotation concentration of polymetallic ores. Proposed method comprises conditioning of pulp containing copper and lead sulphides in alkaline limy medium with alkaline metal dichromate, extracting yellow copper ore into foam product and extracting galenite into flotation tail. Prior to conditioning with alkaline metal dichromate, additionally added is hydrogen peroxide in amount of 30-200 g/t, while alkaline metal dichromate is added in amount of 0.05-1.2 kg per ton of ore. EFFECT: higher selectivity of flotation and lead extraction into lead concentrate, increased quality of lead and copper concentrates. 2 cl, 2 tbl, 2 ex

Classifications:

International (IPC 8-9): B03D1/002 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
RU2009146951 A	20110627	RU20090146951	20091218
RU2432999 C2	20111110	RU20090146951	20091218

Priority:

RU20090146951 20091218

Probable Assignee: FEDERAL NOE G OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA NATSIONAL NYJ I S

Assignee(s): (std): FEDERAL NOE G OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA NATSIONAL NYJ I S ; FEDERAL STATE EDUCATIONAL INSTITUTION

Assignee(s): FEDERAL NOE GOSUDARSTVENNOE OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA NATSIONAL NYJ ISSLEDOVATEL SKIJ TEKHNOLOGIC HESKIJ UNIVERSITET MISIS

Inventor(s): (std): GORJACHEV BORIS EVGEN EVICH ; NIKOLAEV ALEKSANDR ALEKSANDROVICH

Inventor(s): GORJACHEV BORIS EVGEN'EVICH

Title: METHOD OF FLOTATION DRESSING OF ORES CONTAINING SULPHIDE MINERALS AND GOLD

Abstract: Source: RU2426598C FIELD: process engineering. SUBSTANCE: invention relates to mining and may be used in deep processing of ore and barren mineral stock. Method comprises crushing ore, preparing has-water emulsion, saturating mineral suspension with gas bubbles by mixing it with prepared gas-water emulsion, mineralising gas bubbles and separating mineralised bubbles in the form of slime concentrate. Gas-water emulsion "oxygen-water" is prepared by photo electrochemical method in forcing water through anode chamber of direct-flow membrane crystalliser and subjecting it to UV radiation to produce high-activity ozone oxidiser, hydroxide radicals, and hydrogen dioxide. Mineral suspension containing crushed ore is pre-saturated with hydrogen bubbles, bubble size making 50 mcm and smaller, in forcing it through catalyser cathode chamber. With suspension escaping from cathode chamber, collector is added to suspension to be mixed with "oxygen-water" emulsion. Mix produced is fed into flotation machine chamber to be mixed and additionally saturated with air bubbles of standard flotation size. EFFECT: higher efficiency. 2 cl

Classifications:

International (IPC 8-9): B03B1/00 B03D1/02 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
RU2426598 C1	20110820	RU20100111582	20100325

Priority:

RU20100111582 20100325

Probable Assignee: G OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA CHITINSKIJ GU CHITGU

Assignee(s): (std): G OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA CHITINSKIJ GU CHITGU

Assignee(s): GOSUDARSTVENNOE OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA CHITINSKIJ GOSUDARSTVENNYJ UNIVERSITET CHITGU

Inventor(s): (std): TAPSIEV ALEKSANDR PETROVICH ; SHKATOV VLADIMIR JUR EVICH ; SEKISOV ARTUR GENNADIEVICH ; LAVROV ALEKSANDR JUR EVICH ; KONDRAT EV SERGEJ ALEKSANDROVICH ; KHAKULOV VIKTOR ALEKSEEVICH ; FEDOROV ANTON SERGEEVICH

Inventor(s): KONDRAT'EV SERGEJ ALEKSANDROVICH ; LAVROV ALEKSANDR JUR'EVICH ; SHKATOV VLADIMIR JUR'EVICH