

Title (en)

CASCADE FLOTATION PROCESS AND APPARATUS FOR CARRYING OUT THE PROCESS

Publication

EP 0098902 A3 19841205 (EN)

Application

EP 82303547 A 19820706

Priority

EP 82303547 A 19820706

Abstract (en)

[origin: EP0098902A2] Minerals and metals are separated from a crushed ore mixture of crushed ore, aqueous solution, and flotation agent by allowing the mixture to fall freely from one or more outlets (11) into a container (1), so entrapping air during the free fall and encouraging the development of a large quantity of froth. Air entrainment is enhanced by passing the mixture to the outlets (11) via a header (9) in which air is drawn in through an air inlet pipe (39).

IPC 1-7

B03D 1/14

IPC 8 full level

B03D 1/14 (2006.01)

CPC (source: EP)

B03D 1/028 (2013.01); **B03D 1/1412** (2013.01); **B03D 1/1456** (2013.01); **B03D 1/1493** (2013.01); **B03D 1/247** (2013.01)

Citation (search report)

- [X] US 2416066 A 19470218 - PHELPS DONALD S
- [Y] GB 104367 A 19170226 - MINERALS SEPARATION LTD [GB]
- [Y] US 3255882 A 19660614 - MCCARTY JAMES P, et al
- [X] EP 0041728 A1 19811216 - VOITH GMBH J M [DE]
- [A] US 1780022 A 19301028 - LITTLEFORD JOHN W
- [A] US 1380650 A 19210607 - JAMES HEBBARD
- [A] US 1869732 A 19320802 - JAMES ASSELSTINE WILLIAM
- [A] US 1442306 A 19230116

Cited by

CN109382215A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0098902 A2 19840125; EP 0098902 A3 19841205

DOCDB simple family (application)

EP 82303547 A 19820706