

Title (en)

METHOD AND AGENTS FOR OBTAINING MINERALS FROM ORES BY FLOTATION

Publication

EP 0298392 A3 19910109 (DE)

Application

EP 88110551 A 19880701

Priority

ZA 874930 A 19870707

Abstract (en)

[origin: EP0298392A2] In ore flotation, collecting agent mixtures are used which contain - unsubstituted primary and secondary C8-C22-alkyl- and/or -alkenyl-amines and/or salts thereof and - xanthates, dithiophosphates, mercaptobenzothiazoles, xanthogen formates (alkylcarbonic/alkylxanthic acid anhydrides) and/or thionocarbamates. <IMAGE>

IPC 1-7

B03D 1/02

IPC 8 full level

B03D 1/004 (2006.01); **B03D 1/01** (2006.01); **B03D 1/012** (2006.01); **B03D 1/014** (2006.01)

CPC (source: EP US)

B03D 1/01 (2013.01 - EP US); **B03D 1/012** (2013.01 - EP US); **B03D 1/014** (2013.01 - EP US); **B03D 2201/02** (2013.01 - EP US); **B03D 2203/025** (2013.01 - EP US)

Citation (search report)

- [X] FR 1011166 A 19520619 - PENARROYA MINIERE METALL
- [A] US 4036746 A 19770719 - STROW LAWRENCE EVANS, et al
- [A] WO 8703221 A1 19870604 - DOW CHEMICAL CO [US]
- [A] DE 917361 C 19540902 - KALI CHEMIE AG

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DE10055126C1; AU2002229524B2; CN112718252A; US7051881B2; WO2008157613A1; WO0238277A3

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0298392 A2 19890111; EP 0298392 A3 19910109; AU 1874088 A 19890112; AU 603685 B2 19901122; BR 8803360 A 19890131; CA 1316275 C 19930413; FI 883236 A0 19880706; FI 883236 A 19890108; NO 883027 D0 19880706; NO 883027 L 19890109; US 4908125 A 19900313; US 5122289 A 19920616; YU 130688 A 19900228

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EP 88110551 A 19880701; AU 1874088 A 19880706; BR 8803360 A 19880706; CA 571722 A 19880707; FI 883236 A 19880706; NO 883027 A 19880706; US 21596188 A 19880707; US 45571090 A 19900205; YU 130688 A 19880705