

Title (en)

Surfactant mixtures as collectors for the flotation of non-sulfidic minerals.

Title (de)

Tensidmischungen als Sammler für die Flotation nichtsulfidischer Erze.

Title (fr)

Mélanges d'agents tensio-actifs comme collecteurs pour la flottation de minerais non sulfurés.

Publication

**EP 0344553 A1 19891206 (DE)**

Application

**EP 89109118 A 19890520**

Priority

DE 3818482 A 19880531

Abstract (en)

[origin: US4995998A] Fatty alcohol polyglycol ethers terminally blocked by hydrophobic radicals are used as co-collectors together with cationic or ampholytic surfactant components in the flotation of non-sulfidic ores.

Abstract (de)

Fettalkoholpolyglykolether, die durch hydrophobe Reste endgruppenverschlossen sind, werden bei der Flotation nichtsulfidischer Erze als Co-Sammler zusammen mit kationischen und/oder ampholytischen Tensidkomponenten eingesetzt.

IPC 1-7

**B03D 1/00**

IPC 8 full level

**B03D 1/00** (2006.01); **B03D 1/004** (2006.01); **B03D 1/008** (2006.01); **B03D 1/01** (2006.01); **B03D 1/012** (2006.01); **B03D 1/016** (2006.01); **C09K 23/10** (2022.01); **C09K 23/16** (2022.01); **C09K 23/18** (2022.01); **C09K 23/28** (2022.01); **C09K 23/42** (2022.01)

CPC (source: EP US)

**B03D 1/0043** (2013.01 - EP US); **B03D 1/01** (2013.01 - EP US); **B03D 1/012** (2013.01 - EP US); **B03D 2203/04** (2013.01 - EP US)

Citation (search report)

- [A] EP 0107561 A1 19840502 - ELF AQUITAINE [FR]
- [A] GB 782107 A 19570904 - ANZIN LTD
- [A] US 3865718 A 19750211 - TVETER ELMER C, et al
- [A] EP 0201815 A2 19861120 - HENKEL KGAA [DE]
- [AD] DE 3315951 A1 19841108 - HENKEL KGAA [DE]
- [AP] EP 0270933 A2 19880615 - HENKEL KGAA [DE]
- [A] SOVIET INVENTIONS ILLUSTRATED, Woche 8601, 21. Januar 1986, Nr. 86-005601/01, Derwent Publications Ltd, London, GB; & SU-A-1162 495 (BELORUSS KIROV TECHN INS) 23-06-1985

Designated contracting state (EPC)

BE DE ES FR GB IT SE

DOCDB simple family (publication)

**EP 0344553 A1 19891206**; **EP 0344553 B1 19920701**; AU 3582889 A 19891207; AU 609996 B2 19910509; BR 8902487 A 19900116; CA 1336018 C 19950620; DE 3818482 A1 19891207; DE 58901762 D1 19920806; ES 2033487 T3 19930316; FI 892612 A0 19890530; FI 892612 A 19891201; FI 89464 B 19930630; FI 89464 C 19931011; NO 892155 D0 19890529; NO 892155 L 19891201; PT 90692 A 19891130; PT 90692 B 19941031; TR 24028 A 19910204; US 4995998 A 19910226; ZA 894115 B 19900131

DOCDB simple family (application)

**EP 89109118 A 19890520**; AU 3582889 A 19890530; BR 8902487 A 19890531; CA 601352 A 19890531; DE 3818482 A 19880531; DE 58901762 T 19890520; ES 89109118 T 19890520; FI 892612 A 19890530; NO 892155 A 19890529; PT 9069289 A 19890530; TR 37589 A 19890503; US 35906189 A 19890530; ZA 894115 A 19890530