

Title (en)  
SURFACE-ACTIVE DERIVATIVES OF FATTY-ACID ESTERS AND/OR FATTY ACIDS AS COLLECTORS IN THE FLOTATION OF NON-SULFIDIC ORES

Publication  
**EP 0368061 B1 19930317 (DE)**

Application  
**EP 89119493 A 19891020**

Priority  
DE 3836891 A 19881029

Abstract (en)  
[origin: EP0368061A1] Surface-active fatty acid ester and/or fatty acid derivatives obtained by reacting epoxidized fatty acid esters with 1 to 3 mol of sulphur trioxide per mol of epoxide oxygen at 20 to 100 DEG C, reacting the reaction product (A) with nucleophilic reagents and, if necessary, saponifying the ester bond are used as collectors in the flotation of non-sulphidic ores.

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**B03D 1/012**

IPC 8 full level  
**B03D 1/012** (2006.01)

CPC (source: EP)  
**B03D 1/012** (2013.01); **B03D 2201/02** (2013.01); **B03D 2203/04** (2013.01)

Cited by  
CN108543631A; CN107442294A; ES2036465A1

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**EP 0368061 A1 19900516; EP 0368061 B1 19930317**; AU 4631389 A 19900514; AU 627805 B2 19920903; BR 8907743 A 19910820; CA 2001736 A1 19900429; DE 3836891 A1 19900503; DE 58903805 D1 19930422; EP 0440746 A1 19910814; ES 2041939 T3 19931201; PT 92128 A 19900430; PT 92128 B 19950703; TR 24025 A 19910204; WO 9004459 A1 19900503; ZA 898203 B 19900725

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