

Title (en)
Additive for conveyor lubricant

Title (de)
Additive für Kettengleitmittel

Title (fr)
Additif pour lubrifiants pour systèmes de convoyeurs

Publication
EP 0918084 A3 19991117 (DE)

Application
EP 98121586 A 19981119

Priority
DE 19751744 A 19971121

Abstract (en)
[origin: EP0918084A2] Fatty acid derivatives of specified formula are used as additives in conveyor lubricants. The fatty acid derivatives are of formula: $RC(O)X(CH_2CH_2O)_nR'$ (where, R = 6-30 C fatty acid residue, which can have 1-3 carbon-carbon double bonds that can be epoxidised and subsequently converted with compounds of formula: $R_1O(CH_2CH_2O)_x$ (where, $R_1 = H$ or 1-18 C alkyl and $x = 0-50$; $X = O$ or NR'' ; $R'' = H$, $(CH_2CH_2O)_pR'$ or optionally 1-20 C alkyl interrupted by 1-5 O atoms or $NH(CH_2)_mNR'''$; $R''' = H$ or $(CH_2CH_2O)_pR'$; $m = 1-6$; $p = 1-20$; $R' = H$, 1-10 C alkyl, or $(O)CR$; and $n = 1-20$). An Independent claim is also included for a conveyor lubricant containing (in wt.%): (a1) 1-30 compound of formula (I) (A1); (b1) 0-30 complex former (B1); (c1) 1-20 fatty alcohol ethoxylate (C1); (d1) 0-25 fatty acids (D1); (e1) 0-25 further additives (E1); and (f1) an amount of amine (F1) sufficient to give the lubricant an alkaline pH; or (a2) 0.5-15 compound of formula (A2); (b2) 0.5-15 ether carboxylic acid (B2); (c2) 0.5-20 fatty alcohol ethoxylate (C2); (d2) 0-25 fatty amine (D2); (e2) 0-10 further additives (E2); and (f2) an amount of carboxylic acids (F2) sufficient to protonate the fatty amines (D2).

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C10M 173/02

IPC 8 full level
C10M 173/02 (2006.01)

CPC (source: EP)
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Citation (search report)

- [X] DE 2313330 A1 19731004 - BASF WYANDOTTE CORP
- [X] WO 9526389 A1 19951005 - DIVERSEY CORP [CA]
- [A] US 3364143 A 19680116 - LIDDELL JOHNSON KEITH
- [DA] EP 0754667 A2 19970122 - BASF AG [DE]
- [DA] DE 19540091 A1 19970430 - BASF AG [DE]
- [A] WO 9213925 A1 19920820 - BEROL NOBEL AB [SE]
- [A] GB 2000185 A 19790104 - NL INDUSTRIES INC

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