

Title (en)
SYNTHESIS OF ANIONIC CLEANING AGENTS

Title (de)
SYNTHESE VON ANIONISCHEN REINIGUNGSMITTELN

Title (fr)
SYNTHESE D'AGENTS DE NETTOYAGE ANIONIQUES

Publication
EP 0888295 A4 20001206 (EN)

Application
EP 97901911 A 19970106

Priority
• GB 9601880 A 19960131
• US 9700082 W 19970106

Abstract (en)
[origin: WO9728119A1] There is provided a method of synthesis of a disulfated cleaning agent from a substituted cyclic anhydride, particularly a substituted succinic anhydride, having one or more carbon chain substituents comprising in total at least 5 carbon atoms comprising the following steps: (i) reduction of said substituted cyclic anhydride to form a diol; (ii) optionally, alkoxylation of said diol to form an alkoxyated diol; and (iii) sulfation of said diol to form a disulfate, wherein said reduction step comprises hydrogenation in the presence of a transition metal-containing hydrogenation catalyst. The hydrogenation is carried out under pressure.

IPC 1-7
C07C 303/24; **C07C 29/147**; **C11D 1/16**; **C11D 1/29**

IPC 8 full level
C07C 29/147 (2006.01); **C07C 303/24** (2006.01); **C07C 305/06** (2006.01); **C11D 1/16** (2006.01); **C11D 1/29** (2006.01); **C11D 11/00** (2006.01); **C07C 305/10** (2006.01)

CPC (source: EP)
C07C 29/147 (2013.01); **C07C 303/24** (2013.01); **C11D 1/16** (2013.01); **C11D 1/29** (2013.01)

Citation (search report)
• [Y] EP 0373946 A1 19900620 - TONEN CORP [JP]
• [Y] EP 0143634 A2 19850605 - DAVY MCKEE LONDON [GB]
• See references of WO 9728119A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
GB 2310206 A 19970820; **GB 9601880 D0 19960403**; AR 005605 A1 19990623; BR 9707225 A 19990720; CN 1214040 A 19990414; EP 0888295 A1 19990107; EP 0888295 A4 20001206; JP H11503485 A 19990326; MX 9806220 A 19981031; WO 9728119 A1 19970807

DOCDB simple family (application)
GB 9601880 A 19960131; AR P970100369 A 19970130; BR 9707225 A 19970106; CN 97193241 A 19970106; EP 97901911 A 19970106; JP 52763797 A 19970106; MX 9806220 A 19980731; US 9700082 W 19970106