

Title (en)
Multifunctional detergent raw material

Title (de)
Multifunktioneller Waschrohstoff

Title (fr)
Matière première détergente multifonctionnelle

Publication
EP 0744459 B1 20011010 (DE)

Application
EP 96810283 A 19960503

Priority
CH 149495 A 19950519

Abstract (en)
[origin: EP0744459A1] A raw material for a washing compsn. is obtd. by reacting (a) 2.5-19.6 wt.% of an ethylenically unsatd. sulphonic or carboxylic acid or anhydride with (b) 20-95 wt.% of a nonionic tenside of formula R2-O-(alkylene-O)_n-R2 and (c) 0-60% of a sugar deriv.. In the formula, R1 is a 8-22C alkyl or 8-18C alkenyl; R2 is H, 1-4C alkyl, at least 6C cycloaliphatic gp., or benzyl; alkylene is 2-4C; and n = 1-6.

IPC 1-7
C11D 3/37

IPC 8 full level
C11D 10/04 (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP KR US)
C11D 3/3788 (2013.01 - EP US); **C11D 9/00** (2013.01 - KR)

Designated contracting state (EPC)
BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
EP 0744459 A1 19961127; EP 0744459 B1 20011010; BR 9602332 A 19980422; CA 2176894 A1 19961120; CN 1079426 C 20020220; CN 1138090 A 19961218; DE 59607860 D1 20011115; ES 2163606 T3 20020201; JP H08325598 A 19961210; KR 100406065 B1 20040326; KR 960041338 A 19961219; MX 201083 B 20010319; US 5885952 A 19990323; ZA 963936 B 19961119

DOCDB simple family (application)
EP 96810283 A 19960503; BR 9602332 A 19960517; CA 2176894 A 19960517; CN 96100282 A 19960517; DE 59607860 T 19960503; ES 96810283 T 19960503; JP 12441496 A 19960520; KR 19960016554 A 19960517; MX 9601857 A 19960517; US 64993896 A 19960515; ZA 963936 A 19960517