

Title (en)

Low foaming washing-machine detergents

Title (de)

Schwachschäumende Maschinen-Waschmittel

Title (fr)

Détergents pour machine à laver qui forment peu de mousse

Publication

EP 0457965 B2 20020424 (DE)

Application

EP 90124032 A 19901213

Priority

DE 4016819 A 19900525

Abstract (en)

[origin: EP0457965A1] The invention relates to low foaming, liquid or powder washing machine detergents whose surfactant content is very substantially synthesised from renewable raw materials and which displays very good washing results associated with excellent biodegradability. Currently used in known washing machine detergents are mainly petrochemically produced surfactants which in most cases are not completely biodegradable and represent a potential problem because of the raw materials situation expected in the future (petroleum shortage). For these reasons, washing machine detergents which contain as surfactant component 5 - 30 % alkyl polyglycoside, 5 - 30 % alkenol ether carboxylates, 5 - 30 % soap and 0 - 3 % other surfactants are proposed.

IPC 1-7

C11D 10/04

IPC 8 full level

C11D 1/06 (2006.01); **C11D 10/04** (2006.01); **C11D 1/66** (2006.01)

CPC (source: EP)

C11D 10/04 (2013.01); **C11D 1/06** (2013.01); **C11D 1/662** (2013.01)

Cited by

US5908928A; WO9742299A1; WO9924538A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0457965 A1 19911127; **EP 0457965 B1 19950621**; **EP 0457965 B2 20020424**; AT E124083 T1 19950715; CA 2043147 A1 19911126; DE 4016819 A1 19911219; DE 59009297 D1 19950727; DK 0457965 T3 19951106; ES 2075873 T3 19951016; JP H04227998 A 19920818; NO 178233 B 19951106; NO 178233 C 19960214; NO 911993 D0 19910523; NO 911993 L 19911126

DOCDB simple family (application)

EP 90124032 A 19901213; AT 90124032 T 19901213; CA 2043147 A 19910523; DE 4016819 A 19900525; DE 59009297 T 19901213; DK 90124032 T 19901213; ES 90124032 T 19901213; JP 11985491 A 19910524; NO 911993 A 19910523