

Title (en)

LIQUID DETERGENT AND CLEANER CONTAINING COMBINATIONS OF ENZYMES

Title (de)

ENZYMKOMBINATIONSHALTIGE FLÜSSIGE WASCH- UND REINIGUNGSMITTEL

Title (fr)

DETERGENT ET NETTOYANT LIQUIDE CONTENANT DES COMBINAISONS D'ENZYMES

Publication

**EP 0729502 A1 19960904 (DE)**

Application

**EP 95900124 A 19941109**

Priority

- DE 4339382 A 19931118
- EP 9403691 W 19941109

Abstract (en)

[origin: WO9514074A1] Disclosed is a liquid detergent and cleaner containing surfactant, protease, amylase, cellulase and builder as well as a nonionic surfactant component that consists of at least 50 wt.%, especially at least 80 wt.%, glycoside of the formula  $R<1>-O(G)_n$ , where  $R<1>$  is an alkyl or alkenyl group with 8 to 22 C atoms, G is a glucose unit and n is a number from 1 to 10. The detergent and cleaner has excellent enzyme stability and improved detergent characteristics.

IPC 1-7

**C11D 3/386**; **C11D 1/66**; **C11D 1/83**; **C11D 1/825**

IPC 8 full level

**C11D 1/66** (2006.01); **C11D 1/825** (2006.01); **C11D 1/83** (2006.01); **C11D 1/835** (2006.01); **C11D 3/386** (2006.01); **C11D 1/14** (2006.01); **C11D 1/29** (2006.01); **C11D 1/44** (2006.01); **C11D 1/52** (2006.01); **C11D 1/72** (2006.01); **C11D 1/74** (2006.01)

CPC (source: EP)

**C11D 1/662** (2013.01); **C11D 1/825** (2013.01); **C11D 1/83** (2013.01); **C11D 1/835** (2013.01); **C11D 3/38645** (2013.01); **C11D 3/38663** (2013.01); **C11D 1/14** (2013.01); **C11D 1/29** (2013.01); **C11D 1/44** (2013.01); **C11D 1/525** (2013.01); **C11D 1/526** (2013.01); **C11D 1/72** (2013.01); **C11D 1/74** (2013.01)

Citation (search report)

See references of WO 9514074A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

**WO 9514074 A1 19950526**; AT E182616 T1 19990815; DE 4339382 A1 19950524; DE 59408552 D1 19990902; EP 0729502 A1 19960904; EP 0729502 B1 19990728; ES 2136270 T3 19991116

DOCDB simple family (application)

**EP 9403691 W 19941109**; AT 95900124 T 19941109; DE 4339382 A 19931118; DE 59408552 T 19941109; EP 95900124 A 19941109; ES 95900124 T 19941109