

Title (en)  
LIPASE-CONTAINING WASHING AND CLEANING AGENTS

Title (de)  
LIPASEHALTIGE WASCH- UND REINIGUNGSMITTEL

Title (fr)  
PRODUITS DE LAVAGE ET DE NETTOYAGE CONTENANT UNE LIPASE

Publication  
**EP 0698079 B1 19970903 (DE)**

Application  
**EP 94916185 A 19940503**

Priority

- DE 4315854 A 19930512
- EP 9401400 W 19940503

Abstract (en)  
[origin: WO9426861A1] The aim of the invention is to enhance the cleaning power of surfactant-, lipase- and builder-containing washing and cleaning agents and to increase the storage stability of the enzyme in the finished product, without recourse to components which are damaging to the environment or are difficult to handle in practice. This aim is achieved essentially by optimizing the surfactant system to give agents containing a non-ionic surfactant consisting of at least 50 % by wt. of a glycoside of the formula  $R_{<1>-O(G)_n}$  in which  $R_{<1>}$  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.

IPC 1-7  
**C11D 3/386**; **C11D 1/66**

IPC 8 full level  
**C11D 1/66** (2006.01); **C11D 1/825** (2006.01); **C11D 1/83** (2006.01); **C11D 3/386** (2006.01); **C11D 1/14** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)  
**C11D 1/662** (2013.01); **C11D 1/825** (2013.01); **C11D 1/83** (2013.01); **C11D 3/38627** (2013.01); **C11D 3/38663** (2013.01); **C11D 1/14** (2013.01); **C11D 1/72** (2013.01)

Cited by  
CN105705623A; WO2015047188A1; US10188736B2; US10857232B2

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

DOCDB simple family (publication)  
**WO 9426861 A1 19941124**; AT E157698 T1 19970915; DE 4315854 A1 19941117; DE 59403971 D1 19971009; EP 0698079 A1 19960228; EP 0698079 B1 19970903; ES 2108456 T3 19971216; JP H08510268 A 19961029

DOCDB simple family (application)  
**EP 9401400 W 19940503**; AT 94916185 T 19940503; DE 4315854 A 19930512; DE 59403971 T 19940503; EP 94916185 A 19940503; ES 94916185 T 19940503; JP 52360494 A 19940503