

Title (en)

WASHING AND/OR CLEANING AGENTS

Title (de)

WASCH UND/ODER REINIGUNGSMITTEL

Title (fr)

PRODUIT DE LAVAGE ET/OU DE NETTOYAGE

Publication

EP 1366142 A1 20031203 (DE)

Application

EP 02719917 A 20020226

Priority

- DE 10110886 A 20010307
- EP 0201996 W 20020226

Abstract (en)

[origin: WO02070641A1] The invention relates to a method for washing textiles using surfactants, enzymes and optionally other usual components. The invention is characterized in that the surfactants and optionally the enzymes which are selected from amylase, lipase and cellulase are released in the washing liquor after a time t1 = (to to 1 min.) in an amount of from 80 to 100 % by weight, based on the amount used, the enzymes selected from proteases are released after a time t2 = (to + 5 to 10 min.) in an amount of from 60 to 100 % by weight, based on the amount used, and the alkalization agents are released after a time t3 = (to + 5 to 10 min.) in an amount of from 80 to 100 % by weight, based on the amount used, with to being the onset of water feed. The inventive method makes it possible to avoid interactions of the individual components and modifications of soilings by prematurely released components by specific and defined release kinetics of individual components, thereby improving washing results.

IPC 1-7

C11D 3/386; C11D 17/00; C11D 3/02; C11D 11/00

IPC 8 full level

C11D 3/02 (2006.01); **C11D 3/386** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 3/044 (2013.01); **C11D 3/38609** (2013.01); **C11D 3/38627** (2013.01); **C11D 3/38645** (2013.01); **C11D 3/38672** (2013.01);
C11D 17/0078 (2013.01); **C11D 2111/12** (2024.01)

Citation (search report)

See references of WO 02070641A1

Cited by

FR3145684A1; WO2018183662A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02070641 A1 20020912; AT E370217 T1 20070915; DE 10110886 A1 20020926; DE 50210703 D1 20070927; EP 1366142 A1 20031203;
EP 1366142 B1 20070815; ES 2289094 T3 20080201

DOCDB simple family (application)

EP 0201996 W 20020226; AT 02719917 T 20020226; DE 10110886 A 20010307; DE 50210703 T 20020226; EP 02719917 A 20020226;
ES 02719917 T 20020226