

Title (en)

DETERGENT COMPOSITIONS COMPRISING A MANNANASE AND A CATIONIC SURFACTANT

Title (de)

WASCHMITTELZUSAMMENSETZUNGEN MIT MANNANASE UND EINEM KATIONISCHEN TENSID

Title (fr)

COMPOSITIONS DETERGENTES COMPRENANT UNE MANNANASE ET UN AGENT TENSIO-ACTIF CATIONIQUE

Publication

EP 1009796 A1 20000621 (EN)

Application

EP 98928978 A 19980610

Priority

- EP 98928978 A 19980610
- EP 97870120 A 19970814
- US 9812025 W 19980610

Abstract (en)

[origin: EP0896998A1] The present invention relates to laundry detergent compositions, comprising a saccharide gum degrading enzyme providing excellent cleaning performance, especially food stain/soil removal, dingy cleaning and whiteness benefits.

IPC 1-7

C11D 3/386; **C11D 1/62**

IPC 8 full level

C12N 9/00 (2006.01); **C11D 1/62** (2006.01); **C11D 3/00** (2006.01); **C11D 3/12** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C12N 9/24** (2006.01); **C12N 9/50** (2006.01); **C12S 11/00** (2006.01)

CPC (source: EP KR)

C11D 1/38 (2013.01 - KR); **C11D 3/0036** (2013.01 - EP); **C11D 3/3723** (2013.01 - EP); **C11D 3/386** (2013.01 - EP); **C11D 3/38609** (2013.01 - EP); **C11D 3/38636** (2013.01 - EP KR); **C11D 3/38645** (2013.01 - EP KR); **C11D 3/3942** (2013.01 - EP); **C11D 2111/12** (2024.01 - KR)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0896998 A1 19990217; AT E230013 T1 20030115; AT E276344 T1 20041015; AT E332958 T1 20060815; AT E363527 T1 20070615; AU 7832798 A 19990308; AU 7833398 A 19990308; AU 7833498 A 19990308; AU 7958198 A 19990308; AU 8064198 A 19990308; AU 8064298 A 19990308; AU 8065198 A 19990308; AU 8065398 A 19990308; BR 9811186 A 20000725; BR 9811187 A 20000725; BR 9811189 A 20000725; BR 9811190 A 20000718; BR 9811191 A 20000718; BR 9811192 A 20000718; BR 9811195 A 20000725; BR 9811196 A 20000725; CA 2299410 A1 19990225; CA 2300696 A1 19990225; CA 2301156 A1 19990225; CA 2301167 A1 19990225; CA 2301168 A1 19990225; CA 2301200 A1 19990225; CA 2301205 A1 19990225; CA 2301404 A1 19990225; CN 1276005 A 20001206; CN 1276824 A 20001213; CN 1276825 A 20001213; CN 1276826 A 20001213; CN 1301294 A 20010627; CN 1306566 A 20010801; CN 1336953 A 20020220; CN 1469919 A 20040121; CZ 2000502 A3 20010314; CZ 2000506 A3 20010314; DE 69810309 D1 20030130; DE 69810309 T2 20031016; DE 69826294 D1 20041021; DE 69826294 T2 20051117; DE 69835214 D1 20060824; DE 69835214 T2 20070621; DE 69837850 D1 20070712; DE 69837850 T2 20080124; DK 1009795 T3 20050124; EP 1009794 A1 20000621; EP 1009796 A1 20000621; EP 1036151 A1 20000920; ES 2185172 T3 20030416; ES 2227845 T3 20050401; ES 2268780 T3 20070316; HU P0003670 A2 20010528; HU P0003670 A3 20010628; ID 23442 A 20000420; JP 2001515126 A 20010918; JP 2001515127 A 20010918; JP 2001515128 A 20010918; JP 2001515129 A 20010918; JP 2001515130 A 20010918; JP 2001515131 A 20010918; JP 2001515132 A 20010918; JP 2001515133 A 20010918; JP 4090688 B2 20080528; JP 4090689 B2 20080528; JP 4090690 B2 20080528; KR 20010022893 A 20010326; KR 20010022908 A 20010326; MX PA00001567 A 20010601; MX PA00001610 A 20010601; MX PA00001613 A 20010601; MX PA00001614 A 20010601; MX PA00001616 A 20010601; MX PA00001617 A 20010601; MX PA00001618 A 20010601; PT 1009795 E 20050228; TR 200000339 T2 20000721; TR 200000340 T2 20001121; WO 9909126 A1 19990225; WO 9909127 A1 19990225; WO 9909128 A1 19990225; WO 9909129 A1 19990225; WO 9909130 A1 19990225; WO 9909131 A1 19990225; WO 9909132 A1 19990225; WO 9909133 A1 19990225

DOCDB simple family (application)

EP 97870120 A 19970814; AT 98926506 T 19980610; AT 98926514 T 19980610; AT 98928964 T 19980610; AT 98930116 T 19980610; AU 7832798 A 19980610; AU 7833398 A 19980610; AU 7833498 A 19980610; AU 7958198 A 19980610; AU 8064198 A 19980610; AU 8064298 A 19980610; AU 8065198 A 19980610; AU 8065398 A 19980610; BR 9811186 A 19980610; BR 9811187 A 19980610; BR 9811189 A 19980610; BR 9811190 A 19980610; BR 9811191 A 19980610; BR 9811192 A 19980610; BR 9811195 A 19980610; BR 9811196 A 19980610; CA 2299410 A 19980610; CA 2300696 A 19980610; CA 2301156 A 19980610; CA 2301167 A 19980610; CA 2301168 A 19980610; CA 2301200 A 19980610; CA 2301205 A 19980610; CA 2301404 A 19980610; CN 98810046 A 19980610; CN 98810047 A 19980610; CN 98810048 A 19980610; CN 98810049 A 19980610; CN 98810218 A 19980610; CN 98810231 A 19980610; CN 98810236 A 19980610; CN 98810237 A 19980610; CZ 2000502 A 19980610; CZ 2000506 A 19980610; DE 69810309 T 19980610; DE 69826294 T 19980610; DE 69835214 T 19980610; DE 69837850 T 19980610; DK 98928964 T 19980610; EP 98926515 A 19980610; EP 98928963 A 19980610; EP 98928978 A 19980610; ES 98926514 T 19980610; ES 98928964 T 19980610; ES 98930116 T 19980610; HU P0003670 A 19980610; ID 20000396 A 19980610; JP 2000509793 A 19980610; JP 2000509794 A 19980610; JP 2000509795 A 19980610; JP 2000509796 A 19980610; JP 2000509797 A 19980610; JP 2000509798 A 19980610; JP 2000509799 A 19980610; JP 2000509800 A 19980610; KR 20007001497 A 20000214; KR 20007001513 A 20000214; MX PA00001567 A 20000214; MX PA00001610 A 20000215; MX PA00001613 A 20000215; MX PA00001614 A 20000215; MX PA00001616 A 20000215; MX PA00001617 A 20000215; MX PA00001618 A 20000215; PT 98928964 T 19980610; TR 200000339 T 19980610; TR 200000340 T 19980610; US 9811993 W 19980610; US 9811995 W 19980610; US 9811996 W 19980610; US 9812015 W 19980610; US 9812023 W 19980610; US 9812024 W 19980610; US 9812025 W 19980610; US 9812027 W 19980610