

Title (en)
SHEETLIKE ARTICLE FOR WASHING

Title (de)
TUCHÄHNLICHER GEGENSTAND ZUM WASCHEN

Title (fr)
ARTICLE EN FORME DE FEUILLE POUR LE LAVAGE

Publication
EP 0957158 A4 20000405 (EN)

Application
EP 97950419 A 19971226

Priority
• JP 9704870 W 19971226
• JP 1016897 A 19970123

Abstract (en)
[origin: EP0957158A1] To provide a sheetlike article for laundry which is freed from the scattering or leak of the contents, facilitates arbitrary dispensing and exhibits excellent detergency even when used alone, sheetlike water-soluble substrates are arranged on both surfaces of a thin layer made of a doughy non-phosphate detergent composition which contains nonionic surfactant(s), alkaline agent(s) and sequestering agent(s) and has a penetration hardness at 25 DEG C of from 0.1 to 10 kg/cm<2>. <IMAGE>

IPC 1-7
C11D 17/00

IPC 8 full level
C11D 1/62 (2006.01); **C11D 1/66** (2006.01); **C11D 3/00** (2006.01); **C11D 3/08** (2006.01); **C11D 3/20** (2006.01); **C11D 3/33** (2006.01); **C11D 3/37** (2006.01); **C11D 3/39** (2006.01); **C11D 17/00** (2006.01); **C11D 17/04** (2006.01)

CPC (source: EP)
C11D 1/62 (2013.01); **C11D 1/66** (2013.01); **C11D 3/001** (2013.01); **C11D 3/3942** (2013.01); **C11D 17/041** (2013.01); **C11D 17/044** (2013.01)

Citation (search report)
• [DA] US 5202045 A 19930413 - KARPUSIEWICZ WILLIAM M [US], et al
• [E] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08 30 June 1998 (1998-06-30)
• See references of WO 9832835A1

Cited by
US10465151B2; US2016208204A1; EP2121890A4; EP4006133A1; RU2742886C1; CN107075430A; RU2726845C2; EP3395934A4; KR20190100364A; EP3577204A4; EP1048722A4; RU2709010C2; RU2709010C9; WO2018109200A1; US8420589B2; US10704013B2; US7094744B1; WO2018109201A1; WO03052041A1; WO2006124483A1; WO2015027970A1; WO2008040619A1; WO2016029894A1; US11680232B2; US6699826B1; US10781409B2; WO2017220458A1; WO2021113294A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0957158 A1 19991117; EP 0957158 A4 20000405; EP 0957158 B1 20031119; CN 1177025 C 20041124; CN 1248998 A 20000329; DE 69726314 D1 20031224; DE 69726314 T2 20040826; JP 3126675 B2 20010122; JP H10204499 A 19980804; WO 9832835 A1 19980730

DOCDB simple family (application)
EP 97950419 A 19971226; CN 97182067 A 19971226; DE 69726314 T 19971226; JP 1016897 A 19970123; JP 9704870 W 19971226