

Title (en)
WATER-SOFTENER IN POWDERED FORM WITH AN EFFERVESCENT SYSTEM

Title (de)
WASSERENTHÄRTER IN FORM EINES BRAUSEPULVERS

Title (fr)
ADOUCISSEUR D'EAU EN POUDRE CONTENANT UN SYSTEME EFFERVESCENT

Publication
EP 1272602 B2 20091028 (EN)

Application
EP 01921578 A 20010412

Priority
• DE 10018570 A 20000414
• GB 0101679 W 20010412

Abstract (en)
[origin: GB2364302A] Water-softener composition in powdered form containing at least one perfume, characterised in that the composition contains an effervescent system which is essentially free of surfactants and bleaching agents. The effervescent system may comprise on alkali metal carbonate and/or hydrogen carbonate plus an acid such as citric acid or malic acid.

IPC 8 full level
C11D 3/50 (2006.01); **C11D 3/00** (2006.01); **C11D 3/10** (2006.01); **C11D 3/20** (2006.01); **C11D 7/12** (2006.01); **C11D 7/26** (2006.01)

CPC (source: EP)
C11D 3/001 (2013.01); **C11D 3/0052** (2013.01); **C11D 3/10** (2013.01); **C11D 3/2075** (2013.01); **C11D 3/50** (2013.01)

Citation (opposition)
Opponent :
• WO 0077150 A1 20001221 - HENKEL KGAA [DE]
• WO 0075079 A1 20001214 - HERBST JUERGEN [DE]
• US 4650667 A 19870317 - EGUCHI YASUTERU [JP], et al
• EP 1082957 A1 20010314 - GERGELY GERHARD [AT]
• US 5993854 A 19991130 - NEEDLEMAN NORMAN [US], et al
• US 5955057 A 19990921 - MAUNDER TERRY W [CA], et al
• WO 9835011 A1 19980813 - HENKEL KGAA [DE], et al
• DE 3512717 A1 19851031 - KAO CORP [JP]
• EP 0922450 A1 19990616 - GERGELY GERHARD [AT]
• EP 0229616 A2 19870722 - KAO CORP [JP]
• DE 4420735 A1 19951221 - ALLPHAMED ARZNEIMITTEL GMBH [DE]
• EP 0537584 A1 19930421 - HENKEL KGAA [DE]
• EP 0456315 A2 19911113 - PROCTER & GAMBLE [US]
• WO 9218596 A1 19921029 - PROCTER & GAMBLE [US]
• "Enzyklopädie Naturwissenschaft und Technik", vol. 1, part A-D 1979, VERLAG MODERNE INDUSTRIE, MÜNCHEN, article "Aromastoffe", pages: 268
• "Römpp-Chemie-Lexikon", vol. 4, part M-PK 1991, GEORG THIEME VERLAG, STUTTGART, article "Natriumaluminate", pages: 2917
• Prioritätsdokument DE 100 18 570

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0179411 A1 20011025; WO 0179411 A8 20020214; AT E329996 T1 20060715; AU 4855201 A 20011030; DE 60120668 D1 20060727; DE 60120668 T2 20070606; DE 60120668 T3 20100520; EP 1272602 A1 20030108; EP 1272602 B1 20060614; EP 1272602 B2 20091028; ES 2264977 T3 20070201; ES 2264977 T5 20100406; GB 0109194 D0 20010530; GB 2364302 A 20020123; GB 2364302 B 20020626

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