

Title (en)

Alpha-olefin and alpha-olefin-cellulose granulates as disintegrants

Title (de)

Alpha Olefin- und Alpha Olefin-Cellulose Granulate als Sprengmittel

Title (fr)

Granules d'alpha-oléfine et alpha-oléfine-celluloses, comme désintégrants

Publication

EP 1491621 B2 20141001 (DE)

Application

EP 03014785 A 20030628

Priority

EP 03014785 A 20030628

Abstract (en)

[origin: EP1491621A1] A phosphate-containing or -free 1-3-phase dishwasher machine cleaning tablet has, in addition to the usual ingredients, a disintegrating agent comprising a granulate containing a polymer including olefin monomer units.

IPC 8 full level

C11D 17/00 (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP)

C11D 3/3749 (2013.01); **C11D 3/3761** (2013.01); **C11D 17/0078** (2013.01); **C11D 17/0091** (2013.01)

Citation (opposition)

Opponent :

- EP 1043391 A1 20001011 - STOCKHAUSEN CHEM FAB GMBH [DE], et al
- WO 02064719 A1 20020822 - BASF AG [DE], et al
- WO 02064720 A1 20020822 - BASF AG [DE], et al
- WO 0234870 A1 20020502 - UNILEVER PLC [GB], et al
- WO 0220708 A1 20020314 - UNILEVER PLC [GB], et al
- WO 02099027 A2 20021212 - ECOLAB INC [US]
- DE 19934704 A1 20010125 - HENKEL KGAA [DE]

Cited by

US8888924B2; WO2014031743A1; US10889783B2; US11932830B2; US10851331B2; US11427792B2; US11905493B2; EP2358855B1; EP3114197B1

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