

Title (en)

Low-temperature-effective detergent compositions and delivery systems therefor.

Title (de)

Eine bei niedriger Temperatur wirksame Detergenszusammensetzung und Ausführungssystem hierfür.

Title (fr)

Composition détergente effective à basse température et de systèmes d'exécution pour cela.

Publication

EP 0158464 A1 19851016 (EN)

Application

EP 85301979 A 19850321

Priority

US 59266084 A 19840323

Abstract (en)

A laundering detergent is a mull which contains at least one detergent builder; and a nonionic surfactant system with a low pour point, most preferably 5 DEG C or below. Preferably the solids in the composition have a particle size in excess of 10 microns, and the viscosity lies in the range 10<4> to 10<5> centipoise. The detergent mull is delivered in a water soluble film pouch.

IPC 1-7

C11D 1/72; C11D 17/00; C11D 17/04

IPC 8 full level

C11D 1/66 (2006.01); C11D 1/72 (2006.01); C11D 17/00 (2006.01); C11D 17/04 (2006.01)

CPC (source: EP)

C11D 1/72 (2013.01); C11D 1/825 (2013.01); C11D 17/00 (2013.01); C11D 17/0004 (2013.01); C11D 17/043 (2013.01); C11D 17/044 (2013.01)

Citation (search report)

- [AD] US 4264466 A 19810428 - CARLETON KAREN L, et al
- [A] DE 2825218 A1 19781214 - ICI LTD
- [A] EP 0034387 A2 19810826 - PROCTER & GAMBLE [US]
- [A] EP 0011502 A1 19800528 - UNILEVER PLC [GB], et al

Cited by

US6465407B2; FR2666348A1; US4874537A; US5395616A; EP0284334A3; US6133214A; US5224601A; US4929380A; FR2603600A1; BE1002979A5; US5264147A; EP0513902A3; AU686995B2; AU651961B2; US5280835A; US5880083A; US4919834A; EP0295525A3; US4830782A; BE1002928A5; FR2619823A1; US5341932A; EP2292725A1; CN113661230A; US6363693B1; US6448212B1; US11434454B2; US6281183B1; US6378274B1; EP4239046A1; US5222595A; US5080226A; EP0266199A3; GB2197339A; FR2609042A1; GB2197339B; US5389284A; WO03044155A1; WO2011025615A3; WO9114765A1; US7674761B2; US8367599B2; US11946022B2; US7179780B2; US6451750B2; FR3120633A1; US7083047B2; US6479448B2; EP0849391A1; US6995125B2; US7229955B2; US7304023B2; EP0643130B1; KR101135918B1; FR3121933A1; WO2023168310A1

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