

Title (en)
DETERGENT BARS COMPRISING ADJUVANT POWDERS FOR DELIVERING BENEFIT AGENT AND PROCESS FOR MANUFACTURE OF SAID BARS

Title (de)
REINIGUNGSMITTELSTÜCKE ENTHALTEND PULVERFÖRMIGE WIRKSTOFFE, UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)
PAINS DETERGENTS CONTENANT DES POUDRES ADJUVANTES POUR LIBERER UN AGENT BENEFIQUE ET PROCEDE POUR PRODUIRE CES PAINS

Publication
EP 0973858 B1 20030702 (EN)

Application
EP 98904167 A 19980123

Priority

- EP 9800528 W 19980123
- US 82150297 A 19970321
- US 82150197 A 19970321

Abstract (en)
[origin: WO9842814A1] Adjuvant powder compositions contain a benefit agent or agents and which powder compositions are used in detergent bar compositions to enhance delivery of the benefit agent. The carriers used to form adjuvants must have melting point high enough to survive spray-drying process. Specifically, the invention relates to a bar compositions comprising (A) about 1 % to 30 % powder comprising: (a) 1 % to 70 % by wt. powder benefit agent; (b) 15 % to 98 % by wt. powder carrier; (c) 1 % to 10 % by wt. powder water; and (d) 0 % to 30 % by wt. powder deposition/processing aid (e.g., surfactant, cationic polymer and/or hydrophilic polymer); and (B) 99 % to 70 % chips comprising 5 % to 90 % of a surfactant system wherein the surfactant is selected from the group consisting of soap, anionic surfactant, nonionic surfactant, amphoteric surfactant, cationic surfactant and mixtures thereof. The present invention also provides a process for making bars wherein (A) and (B) are separately prepared; wherein (a), (b), (c) and optional (d) are mixed at 40 DEG to 80 DEG C; wherein the mixture of (a) and (b) is spray dried at 80 DEG C to 200 DEG C at a pressure of 0.10 to 0.30 MPa; and wherein (A) and (B) are mixed, plodded, and extruded into a final bar.

IPC 1-7
C11D 17/00; C11D 11/00; C11D 1/37; C11D 3/22; C11D 3/37

IPC 8 full level
A61K 8/00 (2006.01); **A61K 8/40** (2006.01); **A61K 8/46** (2006.01); **A61K 8/64** (2006.01); **A61K 8/65** (2006.01); **A61K 8/73** (2006.01); **A61K 8/86** (2006.01); **A61Q 19/10** (2006.01); **C11D 1/37** (2006.01); **C11D 3/18** (2006.01); **C11D 3/22** (2006.01); **C11D 3/37** (2006.01); **C11D 3/38** (2006.01); **C11D 3/382** (2006.01); **C11D 3/384** (2006.01); **C11D 9/22** (2006.01); **C11D 9/24** (2006.01); **C11D 9/26** (2006.01); **C11D 9/40** (2006.01); **C11D 11/00** (2006.01); **C11D 11/02** (2006.01); **C11D 17/00** (2006.01); **C11D 17/06** (2006.01); **C11D 1/12** (2006.01); **C11D 1/52** (2006.01); **C11D 1/90** (2006.01)

CPC (source: EP KR)
C11D 3/18 (2013.01 - EP); **C11D 3/222** (2013.01 - EP); **C11D 3/227** (2013.01 - EP); **C11D 3/3707** (2013.01 - EP); **C11D 3/373** (2013.01 - EP); **C11D 3/3769** (2013.01 - EP); **C11D 3/38** (2013.01 - EP); **C11D 3/382** (2013.01 - EP); **C11D 3/384** (2013.01 - EP); **C11D 9/225** (2013.01 - EP); **C11D 9/24** (2013.01 - EP); **C11D 9/262** (2013.01 - EP); **C11D 9/40** (2013.01 - EP); **C11D 17/00** (2013.01 - KR); **C11D 17/006** (2013.01 - EP); **C11D 1/123** (2013.01 - EP); **C11D 1/525** (2013.01 - EP); **C11D 1/90** (2013.01 - EP)

Cited by
US7226899B2

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 9842814 A1 19981001; AR 012088 A1 20000927; AU 6214898 A 19981020; AU 736652 B2 20010802; BR 9808284 A 20000516; CA 2282336 A1 19981001; CA 2282336 C 20070522; CN 1137981 C 20040211; CN 1255942 A 20000607; CZ 296195 B6 20060215; CZ 9903351 A3 20001213; DE 69816058 D1 20030807; DE 69816058 T2 20031224; EP 0973858 A1 20000126; EP 0973858 B1 20030702; ES 2202811 T3 20040401; HK 1025119 A1 20001103; ID 23412 A 20000420; IN 189608 B 20030329; JP 2001518100 A 20011009; KR 100498944 B1 20050704; KR 20010005494 A 20010115; PL 188422 B1 20050131; PL 335807 A1 20000522; RU 2188854 C2 20020910

DOCDB simple family (application)
EP 9800528 W 19980123; AR P980101193 A 19980317; AU 6214898 A 19980123; BR 9808284 A 19980123; CA 2282336 A 19980123; CN 98805107 A 19980123; CZ 335199 A 19980123; DE 69816058 T 19980123; EP 98904167 A 19980123; ES 98904167 T 19980123; HK 00104222 A 20000710; ID 991050 A 19980123; IN 128BO1997 A 19970310; JP 54478198 A 19980123; KR 19997008551 A 19990920; PL 33580798 A 19980123; RU 99122352 A 19980123