

Title (en)
MANUFACTURE OF COMPACTED GRANULES FOR WASHING AGENTS.

Title (de)
HERSTELLUNG VERDICHTETER GRANULATE FÜR WASCHMITTEL.

Title (fr)
FABRICATION DE GRANULES COMPRIMES POUR PRODUITS DE LAVAGE.

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EP 0486592 B1 19940615

Application
EP 90912777 A 19900731

Priority
• DE 3926253 A 19890809
• DE 4010533 A 19900402
• EP 9001247 W 19900731

Abstract (en)
[origin: WO9102047A1] Compacted granules of given particle size are obtained from preliminary mixtures of at least partly solid constituents of washing and cleaning agents by addition of water-soluble, water-dispersible or water-emulsifiable plasticizers and/or lubricants. The preliminary mixture is worked into a homogeneous mass and extruded at pressures of 25 to 200 bar through perforated moulds with apertures whose width is equal to the given granule size. The compacted extrudates are reduced to the given granule size. The process is suitable for manufacturing concentrates for domestic and industrial washing and cleaning agents in the form of bulk and pourable highly compacted granules. The concentrates possess a long storage life and show no tendency to agglomerate.

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C11D 17/06; **C11D 11/00**

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CPC (source: EP US)
C11D 11/0082 (2013.01 - EP US); **C11D 17/0047** (2013.01 - EP US); **C11D 17/0073** (2013.01 - EP US); **C11D 17/065** (2013.01 - EP US)

Cited by
US6153576A; US6075001A; US6313081B1; US6875734B2; DE102007016391A1; WO9638530A1; US6897193B2; US7087570B2; US6797687B2; US6881359B2; US6616705B2; US6211136B1; US7510859B2; DE102007028310A1; WO2007054203A2; US6620209B2; US6746996B2; DE102011010818A1; WO2012107187A1; US7186678B2; US6534471B1; US8263541B2; US8785362B2; US6409770B1; US8080401B2; DE102014009836A1; DE102004047777B4; DE102008013606A1; US6479452B2; US7049279B1; US6200946B1; US8426635B2; US6391838B1; US6380147B1; US7888104B2; DE102015002877A1; US7098178B2; US6977239B1; US6235695B1; US8785365B2; US9353361B2; DE102004047776B4; US6897192B2; US6541233B1; US6417152B1; US6756351B2; US6610752B1; US6191096B1; US6458755B2; US7300782B2; US7122511B2; US6649085B2; US7199096B1; US6703357B1; US6417151B1; US6187055B1

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