

Title (en)
METHOD FOR PRODUCING PORTIONED DETERGENTS OR CLEANING AGENTS

Title (de)
VERFAHREN ZUR HERSTELLUNG PORTIONIERTER WASCH- ODER REINIGUNGSMITTEL

Title (fr)
PROCEDE DE FABRICATION D'AGENTS DE LAVAGE OU DE NETTOYAGE EN PORTIONS

Publication
EP 1776448 B1 20131211 (DE)

Application
EP 05776193 A 20050728

Priority
• EP 2005008176 W 20050728
• DE 102004039472 A 20040814

Abstract (en)
[origin: WO2006018108A1] The invention relates to a method for producing portioned detergents or cleaning agents, comprising the following steps: a) deformation of a water-soluble material to form a container comprising at least one opening, an edge that surrounds said opening and at least one additional corner and/or edge; b) filling of said container with an active detergent or cleaning melt and solidification of said melt; c) filling of the container with at least one additional detergent or cleaning agent; and d) sealing and portioning of the filled container. The method is characterised in that the container that is formed in step a) is filled with the melt in step b) in such a way that at least the additional corner(s) and/or edge(s) is/are at least partially filled by the solidified melt. This permits the production of stable, deformation-resistant portioned detergents or cleaning agents.

IPC 8 full level
C11D 17/04 (2006.01); **B65B 9/04** (2006.01); **B65D 65/46** (2006.01)

CPC (source: EP US)
B65B 9/042 (2013.01 - EP US); **C11D 17/0052** (2013.01 - EP US); **C11D 17/044** (2013.01 - EP US)

Cited by
DE102014222602A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102004039472 A1 20060302; EP 1776448 A1 20070425; EP 1776448 B1 20131211; EP 1776448 B2 20231011; ES 2441729 T3 20140206; ES 2441729 T5 20240327; JP 2008510023 A 20080403; PL 1776448 T3 20140630; PL 1776448 T5 20240115; US 2007244024 A1 20071018; WO 2006018108 A1 20060223

DOCDB simple family (application)
DE 102004039472 A 20040814; EP 05776193 A 20050728; EP 2005008176 W 20050728; ES 05776193 T 20050728; JP 2007525211 A 20050728; PL 05776193 T 20050728; US 70573107 A 20070212