

Title (en)  
WATER-SOLUBLE PACKAGE

Title (de)  
WASSERLÖSLICHE VERPACKUNG

Title (fr)  
EMBALLAGE HYDROSOLUBLE

Publication  
**EP 3649057 B1 20210120 (EN)**

Application  
**EP 18734250 A 20180703**

Priority  

- US 201762529682 P 20170707
- EP 17183033 A 20170725
- EP 2018067926 W 20180703

Abstract (en)  
[origin: CN110869289A] A water-soluble package for holding a unit dose composition is provided, the water-soluble package comprising a water-soluble substrate having a thickness from 30 micrometres to 250 micrometres, said substrate comprising: (i). a film-forming material; and, (ii). 0.2 to 5wt% surfactant; wherein the substrate has uniformly dispersed therein gas bubbles having an average diameter less than the total thickness of the substrate. Use of the water-soluble package for washing dishes or laundering textiles.

IPC 8 full level  
**B65D 65/46** (2006.01); **C11D 1/02** (2006.01); **C11D 1/14** (2006.01); **C11D 1/66** (2006.01); **C11D 1/83** (2006.01); **C11D 3/22** (2006.01); **C11D 3/37** (2006.01); **C11D 11/00** (2006.01); **C11D 17/04** (2006.01)

CPC (source: EP)  
**B65D 65/46** (2013.01); **C11D 1/02** (2013.01); **C11D 1/66** (2013.01); **C11D 3/22** (2013.01); **C11D 3/3753** (2013.01); **C11D 17/042** (2013.01); **C11D 1/14** (2013.01); **C11D 2111/12** (2024.01); **C11D 2111/14** (2024.01)

Citation (opposition)  
Opponent : Henkel AG & Co. KGaA  

- US 3695989 A 19721003 - ALBERT ROBERT E
- WO 02060980 A2 20020808 - PROCTER & GAMBLE [US]
- OSPANOVA ZH. B., MUSABEKOV K. B., ASADOV M. M.: "An effect of surfactants of different nature on stabilization of foaming systems containing polyvinyl alcohol", RUSSIAN JOURNAL OF APPLIED CHEMISTRY, PLEIADES PUBLISHING, MOSCOW, vol. 87, no. 3, 1 March 2014 (2014-03-01), Moscow , pages 355 - 359, XP055863629, ISSN: 1070-4272, DOI: 10.1134/S1070427214030185

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
BR 112019027194 A2 20200630; CL 2019003817 A1 20200612; CN 110869289 A 20200306; CN 110869289 B 20210921; EP 3649057 A1 20200513; EP 3649057 B1 20210120; PH 12019502800 A1 20200914; ZA 202000094 B 20210728

DOCDB simple family (application)  
BR 112019027194 A 20180703; CL 2019003817 A 20191223; CN 201880045611 A 20180703; EP 18734250 A 20180703; PH 12019502800 A 20191212; ZA 202000094 A 20200107