

Title (en)  
Process for making a water-soluble pouch

Title (de)  
Verfahren zur Herstellung eines wasserlöslichen Beutels

Title (fr)  
Procédé de fabrication d'un sachet soluble dans l'eau

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Application  
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• US 26546201 P 20010131

Abstract (en)  
[origin: WO0242408A2] A water-soluble pouch suitable for use in machine dishwashing and which comprises a plurality of compartments in generally superposed or suppressible relationship, each containing one or more detergent active or auxiliary components, and wherein the pouch has a volume of from about 5 to about 70 ml and a longitudinal/transverse aspect ratio in the range from about 2:1 to about 1:8, preferably from about 1:1 to about 1:4. The water-soluble pouch allows for optimum delivery of dishwashing detergent. A process for the manufacture of multi-compartment pouches and a pack to contain the pouches are also disclosed.

IPC 8 full level  
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Cited by  
EP3124587A1; WO2017019271A1; CN102428008A; EP4113432A1; US2017029750A1; EP4190706A1; EP3858966A1; WO2021158380A1; WO2015195960A1; EP3098296A1; WO2016196049A1; US10844324B2; WO2021080948A2; WO2013096653A1; WO2015034976A1; WO2016057376A1; WO2023114942A1; EP3098295A1; WO2016195827A1; WO2020086935A1; US10781000B2; WO2015034975A1; WO2015138283A1; WO2016106011A1; WO2016160738A2; US10472597B2; WO2020028443A1; WO2024129953A1; WO2024129951A1; EP2508436A2; US8757062B2; US9446865B2; WO2017091533A1; US9969154B2; WO2014099525A1; US9725685B2; WO2022235655A1; WO2024015769A1; EP2432699B1; EP2302026A1; WO2011034701A1; WO2011034761A1; WO2012051083A1; WO2018184004A1; WO2020077331A2; WO2020252500A1; WO2021092228A1; US11608388B2; WO2015123323A1; WO2015195777A1; WO2017100720A1; EP3901257A1; EP3919599A1; US11920170B2; US8066818B2; WO2014099523A1; WO2015095358A1; EP3354728A1; EP3789407A1; WO2022178073A1; WO2014164777A1; WO2014164800A1; EP3336183A1; WO2021247810A1; EP3978604A1; WO2017083229A1; WO2019036721A2; US10822574B2; WO2021158543A1; WO2023287684A1; WO2023114988A2; EP2380965A1; EP2380966A1; EP3124586A1; WO2017019272A1; WO2019118674A1; EP2088187A1; WO2024081773A1; WO2013128431A2; WO2017083226A1; EP3696264A1; US10876074B2; EP4163305A1; EP2933194B1; EP2088187B2

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**US 0144280 W 20011127**; AT 01987100 T 20011127; AT 04021614 T 20011127; AT 04025305 T 20011127; AT 04030420 T 20011127; AT 07100947 T 20011127; AU 3934902 A 20011127; CA 2426645 A 20011127; CA 2592612 A 20011127; CA 2592729 A 20011127; DE 60109483 T 20011127; DE 60119593 T 20011127; DE 60125847 T 20011127; DE 60129363 T 20011127; DE 60139727 T 20011127; EP 01987100 A 20011127; EP 04021614 A 20011127; EP 04025305 A 20011127; EP 04030420 A 20011127; EP 07100947 A 20011127; ES 01987100 T 20011127; ES 04021614 T 20011127; ES 04025305 T 20011127; ES 04030420 T 20011127; ES 07100947 T 20011127; JP 2002545115 A 20011127; JP 2006107885 A 20060410; JP 2009130029 A 20090529; MX PA03004624 A 20011127; PL 36268501 A 20011127; PT 04025305 T 20011127