

Title (en)  
Closed cartridge for making a beverage.

Title (de)  
Geschlossene Patrone zur Bereitung eines Getränkes.

Title (fr)  
Cartouche fermée pour la confection d'une boisson.

Publication  
**EP 0512468 A1 19921111 (FR)**

Application  
**EP 92107536 A 19920504**

Priority  
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• EP 91111317 A 19910708

Abstract (en)  
The invention relates to a closed cartridge provided in order to be extracted under pressure, containing a substance (3) for preparing a beverage, comprising a dish (2) with an upper face and lateral wall having a substantially frustoconical shape and a lower face (4) having a diameter greater than the upper face, in which the lower face is a protective cover welded onto the perimeter of the lower edge of the dish and consists of an oxygen-impermeable flexible material chosen from the group consisting of aluminium, an aluminium/plastic composite, an aluminium/plastic/paper composite, pure plastic or multi-layers. <IMAGE>

IPC 1-7  
**B65D 81/34**

IPC 8 full level  
**B65D 1/32** (2006.01); **A47J 31/06** (2006.01); **A47J 31/44** (2006.01); **B65D 17/00** (2006.01); **B65D 35/10** (2006.01); **B65D 43/02** (2006.01); **B65D 75/58** (2006.01); **B65D 77/30** (2006.01); **B65D 81/00** (2006.01); **B65D 81/34** (2006.01); **B65D 85/72** (2006.01); **B65D 85/804** (2006.01)

IPC 8 main group level  
**B65D** (2006.01)

CPC (source: EP KR US)  
**B65D 81/34** (2013.01 - KR); **B65D 85/8061** (2020.05 - EP KR US)

Citation (search report)  
• [XD] CH 605293 A5 19780929 - NESTLE SA  
• [X] FR 2211924 A5 19740719 - BATTELLE MEMORIAL INSTITUTE [CH], et al  
• [A] EP 0344541 A1 19891206 - BREV SANVITALE S R L [IT]  
• [AD] GB 938617 A 19631002 - SEALPAK CORP  
• [A] US 2778739 A 19570122 - RODTH JOSEPH J  
• [A] EP 0272922 A2 19880629 - GEN FOODS LTD [GB]  
• [A] EP 0389141 A1 19900926 - GEN FOODS LTD [GB]

Cited by  
KR100815103B1; DE102017112189A1; EP2230195A1; WO2011073052A1; WO2018109018A1; WO0056629A1; EP3831744A1; CN111741700A; WO2009153298A1; US2015086688A1; US9334104B2; EP2801538A1; CN102711505A; CN103153806A; AU755220B2; EP2100824A1; FR2825427A1; US2017174417A1; FR3057555A1; EP1190959A1; AU2002223527B2; FR2973209A1; EP2573008A1; ITBS20110129A1; EP1369356A1; CN103201197A; AU2012323066C1; DE10211327B4; EP0844195A1; AU2009335236B2; WO2009112291A1; WO0226588A1; WO2013053757A1; WO2010076048A1; WO2015177591A3; WO2007113008A3; EP2298667A1; WO2013037781A1; WO2016083485A1; EP2062831A2; WO2023198823A1; WO2016102311A1; WO2017063680A1; WO2012038063A1; WO2016102325A1; WO2017042109A1; US7658141B2; US7981451B2; WO2012076135A1; WO2019121594A1; US10442610B2; US8304006B2; WO2013098173A1; US8895090B2; EP3181484A1; WO2017103028A1; EP3216443A1; WO2017153047A1; WO2018091415A1; WO2019158542A1; WO2019175231A1; WO2020074551A1; WO2012175985A1; US9271605B2; US9604776B2; US9687107B2; US10149569B2; WO2019121865A1; EP3701841A1; EP2082669A2; WO2009092746A2; EP3375333B1; EP1344722A1; US7966927B2; WO2011131595A2; US8163318B2; WO2013066154A1; US8491948B2; EP2727503A1; WO2014056862A1; US9409703B2; US10881582B2; US10960453B2; EP1277428A1; WO2000073A1; US7798055B2; WO2013008012A2; WO2015155145A1; WO2018162440A1; WO2019175227A1; WO2019175232A1; US11066231B2; WO2022135647A1; EP1219216A1; EP1153561A1; WO0184993A1; WO0115581A1; EP1090574A1; US9783361B2; WO2018069268A1; WO2018158179A1; WO2019175230A1; WO2020074550A1; WO2012118367A1; WO2012144885A1; US9540167B2; WO2018114580A1; WO2018130698A1; EP3501345A1; WO2019121834A1; DE102019101545A1; EP3795496A1; WO2023198819A1; WO2005056423A1; EP1327407A2; WO0305698A1; US6966251B2; WO2011080022A1; WO2013037782A1; EP2633789A1; WO2013127476A1; WO2013127907A1; DE112012001531T5; WO2018011328A1; WO2018069266A1; US11242195B2; EP2364930A2; US8916220B2; US8956672B2; WO2015082982A1; US9414709B2; WO2017174434A1; EP3354596A1; WO2019122336A1; WO2020053532A1; FR3085946A1; US10682004B2; EP1095605A1; US6857353B2; US6849285B2; WO2013037783A1; US8474368B2; US8549824B2; US8734881B2; US8850960B2; WO2016083488A1; US9725231B2; WO2019175228A1; WO2006005425A1; WO2012048922A1; US8549992B2; US8784914B2; US9060648B2; EP3501346A1; WO2019121832A1; WO2022058630A1; US7318372B2; EP1380243A1; EP2239211A1; US8257766B2; US10273076B2; WO2019121593A1; WO2020053075A1; US10863856B2; WO2022128596A1; EP2801538B1; US7993691B2; US8202560B2; US8512776B2; US8651012B2; WO2014056641A1; WO2014056642A1; WO2014116246A1; US8986762B2; US9821949B2; WO2018185058A1; WO2019175219A1; US7644649B2; EP2263501A1; US8074562B2; WO2012025258A1; WO2012025259A1; EP2431301A2; DE112011102829T5; WO2013157924A1; US8820216B2; EP2926698A1; US10285534B2; WO2019175225A1; US7604826B2; US7685930B2; EP1500358A1; EP1808382A1; EP1203554A1; WO235977A1; EP2239212A1; WO2011159162A1; WO2011159163A1; US8263148B2; EP3121134A1; US9877495B2; WO2019224168A1; US10820607B2; WO2023198821A1; WO0154551A1; WO2010084176A1; WO2014056810A1; WO2015086371A1; WO2015177591A2; US10730691B2; US10858177B2; US10858176B2; US10870531B2; US10926946B2; US2021086986A1; US10994923B2; US11001437B2; US11230430B2; US11254491B2; US11465829B2; US11465830B2; US11542094B2; US11548722B2; US11667465B2; US11820586B2; US11919703B2; EP3656259B1

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**EP 92107536 A 19920504;** AT 92107536 T 19920504; AU 1505192 A 19920422; CA 2067515 A 19920429; DE 69217113 T 19920504; DK 92107536 T 19920504; ES 92107536 T 19920504; FI 922065 A 19920507; GR 970400623 T 19970326; JP 11637492 A 19920508; KR 920007839 A 19920508; MX 9202144 A 19920508; MY PI19920797 A 19920509; NO 921812 A 19920507; NZ 24256792 A 19920430