

Title (en)
Bottle caps.

Title (de)
Flaschenkappen.

Title (fr)
Capuchons de bouteille.

Publication
EP 0421821 A1 19910410 (EN)

Application
EP 90310977 A 19901005

Priority
GB 8922472 A 19891005

Abstract (en)
The present invention relates to bottle caps (10) for use with blow-fill-seal type bottles (18) having an upwardly removable seal (20), the caps having inwardly projecting members, at least one of which is equipped with a blade (22) and an upstanding wall (23) to engage the seal (20) of the bottle, the wall being recurved away from the seal, such caps (10) allowing thicker frangible membranes to be used in the manufacture of the bottles (18) so that there is less wastage, the caps also permitting easier end-use and a higher success ratio for seal-removal

IPC 1-7
B65D 51/22

IPC 8 full level
B65D 51/22 (2006.01)

CPC (source: EP)
B65D 51/228 (2013.01); **B65D 2251/0015** (2013.01); **B65D 2251/0071** (2013.01)

Citation (search report)
• [X] WO 8900534 A1 19890126 - WAVERLEY PHARMA LTD [GB]
• [AD] US 4526279 A 19850702 - WEILER GERHARD H [US], et al
• [A] FR 2150226 A1 19730406 - MECAPLAST SA [CH]

Cited by
US9517869B2; CN116787734A; EP1547930A1; RU2654186C2; JP2008504176A; AU2005259424B2; US2011155687A1; NO339274B1; WO2006002922A1; WO2011160831A1; US9878831B2; US8899429B2; WO2014202518A1; JP2010528946A

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0421821 A1 19910410; EP 0421821 B1 19931215; AT E98597 T1 19940115; DE 69005253 D1 19940127; DE 69005253 T2 19940428; ES 2049427 T3 19940416; GB 8922472 D0 19891122

DOCDB simple family (application)
EP 90310977 A 19901005; AT 90310977 T 19901005; DE 69005253 T 19901005; ES 90310977 T 19901005; GB 8922472 A 19891005