

Title (en)

CLOSURE WITH INTEGRATED AERATION MEANS

Publication

**EP 0224863 A3 19881005 (DE)**

Application

**EP 86116414 A 19861126**

Priority

DE 3542769 A 19851204

Abstract (en)

[origin: EP0224863A2] The plastic closure for metal or plastic containers has a plastic ring (11), which can be mounted on the container opening, with a pouring spout (2) and has at least one aeration channel (4) which is arranged at least partially in the region of the pouring spout (2). For increasing the operating safety, better functioning and simpler and less expensive producibility, provision is made for the aeration channel (4) to extend at least over the greatest part of the length of the pouring spout (2) and for the aeration channel (4) or its walls to be connected integrally with the pouring spout (2). <IMAGE>

IPC 1-7

**B65D 51/16; B65D 47/06**

IPC 8 full level

**B65D 47/06 (2006.01); B65D 51/16 (2006.01)**

CPC (source: EP)

**B65D 47/061 (2013.01)**

Citation (search report)

- [X] US 2898014 A 19590804 - BORAH JOHN E
- [X] US 2040545 A 19360512 - HAROLD BYERS EDWIN
- [X] DE 1060731 C
- [A] GB 2055772 A 19810311 - RIEKE CORP
- [A] GB 1349535 A 19740403 - RIEKE CORP
- [A] EP 0144829 A2 19850619 - BERG JACOB GMBH CO KG [DE]
- [A] GB 2144403 A 19850306 - SCHIEMANN DR WOLFRAM

Cited by

WO2021129801A1; EP0417453A1; FR2623778A1; US4971230A; AU611958B2; EP0345502A1; US5088632A; DE102010009211A1; EP0432433A1; US5002209A; ES2350780A1; WO8902856A1; WO2010066926A1

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