

Title (en)
SPOUT FOR FLASKS AND SIMILAR RECEPTACLES, WITH A PIERCING ELEMENT FOR PIERCING A LID ON RECEPTACLE NECKS.

Title (de)
AUSGIESSER FÜR FLAKONS ODER DERGLEICHEN MIT EINEM ELEMENT ZUM DURCHSTECHEN EINER VERSCHLUSSMEMBRAN.

Title (fr)
VERSEUR POUR DES FLACONS ET RECIPIENTS ANALOGUES, AVEC UN ELEMENT PERCEUR POUR PERCER UN OPERCULE DU GOULOT DES RECIPIENTS.

Publication
EP 0473678 B1 19941102

Application
EP 90908554 A 19900517

Priority
• FR 8906434 A 19890517
• FR 9000347 W 19900517

Abstract (en)
[origin: US5228592A] PCT No. PCT/FR90/00347 Sec. 371 Date Nov. 12, 1991 Sec. 102(e) Date Nov. 12, 1991 PCT Filed May 17, 1990 PCT Pub. No. WO90/14288 PCT Pub. Date Nov. 29, 1990. A spout and sealing cap assembly for a container which contains a product such as a liquid or pasty product. The container includes a neck closed off by a lid that must be pierced for dispensing the product. The assembly includes a spout with a body that is fixed to the neck. The spout also includes a hollow piercing and dispensing element provided with sharp edges designed to pierce the lid. The element is suspended inside the body by a deformable annular bulged membrane which enables the piercing element to assume an upper position and a lower position wherein the sharp edges extend below the ruptured lid. The spout body is covered by a sealing cap which assumes either an open or a closed position. The cap includes a sealing member extending of a top section of the cap. When the cap is closed, the sealing member is designed for insertion in sealing fashion within the hollow element or in a fitting and sealing relationship about the hollow element both when the element is in the upper and the lower position.

IPC 1-7
B65D 47/36; **B65D 51/22**

IPC 8 full level
B65D 47/36 (2006.01); **B65D 51/22** (2006.01); **B65D 55/06** (2006.01); **B65D 85/72** (2006.01)

IPC 8 main group level
B65D (2006.01)

CPC (source: EP US)
B65D 47/36 (2013.01 - EP US); **B65D 51/224** (2013.01 - EP US); **B65D 51/226** (2013.01 - EP US); **B65D 2251/0025** (2013.01 - EP US); **B65D 2251/0056** (2013.01 - EP US); **B65D 2251/0093** (2013.01 - EP US)

Cited by
US6477743B1; US8070014B2; WO0105674A1; US6659308B1

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

DOCDB simple family (publication)
US 5228592 A 19930720; AT E113547 T1 19941115; AU 5743590 A 19901218; AU 644368 B2 19931209; CA 2057889 C 20000613; DE 69013914 D1 19941208; DE 69013914 T2 19950309; DK 0473678 T3 19950109; EP 0473678 A1 19920311; EP 0473678 B1 19941102; ES 2063968 T3 19950116; FR 2647089 A1 19901123; FR 2647089 B1 19911115; GR 1002580 B 19970206; GR 900100375 A 19911010; JP 2513813 Y2 19961009; JP H05500003 U 19930204; NO 180006 B 19961021; NO 180006 C 19970129; NO 914500 D0 19911118; NO 914500 L 19911118; PT 94062 A 19910108; PT 94062 B 19970430; WO 9014288 A2 19901129; WO 9014288 A3 19910207; ZA 903792 B 19910327

DOCDB simple family (application)
US 77898491 A 19911112; AT 90908554 T 19900517; AU 5743590 A 19900517; CA 2057889 A 19900517; DE 69013914 T 19900517; DK 90908554 T 19900517; EP 90908554 A 19900517; ES 90908554 T 19900517; FR 8906434 A 19890517; FR 9000347 W 19900517; GR 900100375 A 19900516; JP 60001691 U 19900517; NO 914500 A 19911118; PT 9406290 A 19900516; ZA 903792 A 19900517