

Title (en)

SPRAY DEVICE OF THE PRECOMPRESSION HAND PUMP TYPE FOR USE WITH A PROPELLING GAS

Publication

**EP 0307310 B1 19910807 (FR)**

Application

**EP 88402253 A 19880908**

Priority

FR 8712496 A 19870909

Abstract (en)

[origin: EP0307310A1] In order to facilitate the introduction of a propelling gas into a container equipped with a precompression pump of the type in which the closure of a pump chamber is obtained by fitting two cylinders (11, 15) into each other, one cylinder (11) carrying a sealing lip (12), a relief (18) is provided on the other cylinder so that, when it reaches this level, the sealing lip no longer has a sealing effect. In this arrangement, the propelling gas can then easily traverse the pump. <IMAGE>

IPC 1-7

**B05B 11/00**; **B65D 83/14**

IPC 8 full level

**B05B 11/00** (2006.01); **B65D 83/14** (2006.01)

CPC (source: EP US)

**B05B 11/00411** (2018.07 - EP US); **B05B 11/0059** (2013.01 - EP US); **B05B 11/0097** (2013.01 - EP US); **B05B 11/1004** (2023.01 - EP US); **B05B 11/1018** (2023.01 - EP US); **B65D 83/425** (2013.01 - EP US)

Cited by

FR2664943A1; EP0601246A1; EP0561666A1; FR2688714A1; FR2694607A1; US5377881A; EP0583193A3; EP0626321A1; FR2705590A1; US5476198A; US5397059A; WO9519230A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0307310 A1 19890315**; **EP 0307310 B1 19910807**; AT E65946 T1 19910815; DE 3864107 D1 19910912; FR 2620052 A1 19890310; FR 2620052 B1 19900427; US 4964547 A 19901023; US 5096097 A 19920317

DOCDB simple family (application)

**EP 88402253 A 19880908**; AT 88402253 T 19880908; DE 3864107 T 19880908; FR 8712496 A 19870909; US 24246288 A 19880909; US 49728290 A 19900322