

Title (en)

Device for filling a pressurized pharmaceutical liquid in a package

Title (de)

Vorrichtung zum Abfüllen einer unter Druck stehenden pharmazeutischen Flüssigkeit in Verpackungsbehälter

Title (fr)

Dispositif pour remplir un liquide pharmaceutique sous pression dans un récipient

Publication

**EP 0989062 B1 20030312 (DE)**

Application

**EP 99116465 A 19990821**

Priority

DE 19844011 A 19980925

Abstract (en)

[origin: DE19844011C1] Pressurized pharmaceutical liquid (1) filling apparatus comprises a primary pipe (13) which enables the liquid to be taken from a container to a distribution unit, filling valves (18) and pipes, and a pressure sensor for the liquid. The temperature in the distributor is held constant and the distribution unit is surrounded by a housing with an inner coolant channel.

IPC 1-7

**B65B 63/08**

IPC 8 full level

**B65B 3/04** (2006.01); **B65B 63/08** (2006.01); **B67C 3/02** (2006.01); **B67D 1/08** (2006.01)

CPC (source: EP US)

**B65B 63/08** (2013.01 - EP US); **B67D 1/0867** (2013.01 - EP US)

Cited by

CN103482099A; CN105174167A

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

**DE 19844011 C1 20000309**; DE 59904519 D1 20030417; EP 0989062 A1 20000329; EP 0989062 B1 20030312; JP 2000109190 A 20000418; US 6176277 B1 20010123

DOCDB simple family (application)

**DE 19844011 A 19980925**; DE 59904519 T 19990821; EP 99116465 A 19990821; JP 26904999 A 19990922; US 40510899 A 19990927