

Title (en)

PRODUCT DISPENSING DEVICE COMPRISING A PUMP AND A DISPENSING END PIECE

Title (de)

PRODUKTSPENDER MIT EINER PUMPE UND EINEM AUSGABEENDSTÜCK

Title (fr)

DISPOSITIF DE DISTRIBUTION DE PRODUIT COMPRENANT UNE POMPE ET UN EMBOUT DE DISTRIBUTION

Publication

EP 2579992 A1 20130417 (FR)

Application

EP 11735472 A 20110609

Priority

- FR 1054608 A 20100610
- FR 2011051318 W 20110609

Abstract (en)

[origin: WO2011154663A1] The product dispensing device (10) is added to the neck (14) of a container (12) and comprises: a pump (16) comprising a metering chamber closed by a first needle valve forming a nonreturn valve; a dispensing end piece (18) added to the pump and comprising a second needle valve (66) forming a nonreturn valve and a bearing surface on which a user can press to activate the device; a cap (20) for protecting the device; a clamping collar (22) bearing the cap; and a member (24) for fixing the device on the neck (14) of the container, said member comprising means (88) for attaching the member around the neck, that can be activated by sliding the collar (22) with respect to the fixing member (24) from a pre-assembly configuration to an assembly configuration, an inner ring (80) for centring the pump on the container, and an outer ring (82) carrying means (84) for securing the dispensing end piece.

IPC 8 full level

B05B 11/00 (2006.01)

CPC (source: EP US)

B05B 11/0008 (2013.01 - US); **B05B 11/0075** (2013.01 - EP US); **B05B 11/1004** (2023.01 - EP US); **B05B 11/1042** (2023.01 - EP US); **B05B 11/1049** (2023.01 - EP US); **B05B 11/1069** (2023.01 - EP US); **B05B 11/0032** (2013.01 - EP US); **B05B 11/0064** (2013.01 - EP US); **B05B 11/1052** (2023.01 - EP US)

Citation (search report)

See references of WO 2011154663A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2011154663 A1 20111215; CN 103025437 A 20130403; CN 103025437 B 20151125; EP 2579992 A1 20130417; EP 2579992 B1 20191030; FR 2961192 A1 20111216; FR 2961192 B1 20120727; US 2013175303 A1 20130711; US 8863993 B2 20141021

DOCDB simple family (application)

FR 2011051318 W 20110609; CN 201180028623 A 20110609; EP 11735472 A 20110609; FR 1054608 A 20100610; US 201213709844 A 20121210