

Title (en)

ADAPTER FOR EXTRACTING A LIQUID FROM A CONTAINER CLOSED WITH A STOPPER

Title (de)

ADAPTER ZUM ENTNEHMEN EINER FLÜSSIGKEIT AUS EINEM MIT EINEM STOPFEN VERSCHLOSSENEN BEHÄLTNIS

Title (fr)

ADAPTATEUR UTILE POUR PRELEVER UN LIQUIDE DANS UN RECIPIENT FERME PAR UN BOUCHON

Publication

**EP 0957883 B1 20030305 (DE)**

Application

**EP 96945696 A 19961018**

Priority

- DE 9602027 W 19961018
- DE 19540476 A 19951020

Abstract (en)

[origin: WO9715267A2] An adapter is disclosed for extracting a liquid from a container closed with a stopper or for filling this container closed by a stopper retained by a flange. The adapter has at least one spike at its front end for piercing through the stopper, a connector with an inner cone at its rear end for coupling medical apparatus and a flat gripping element in the intermediate area to facilitate mounting the adapter. A funnel open towards the rear end of the adapter is arranged on the connector. In addition, an elastic centring and holding element is arranged towards the front end of the adapter on the gripping element. The inner contour of the centring and holding element corresponds at least in sections approximately to the outer contour of the flange that retains the stopper on the injection container. The inner contour also has locking elements that engage at least sections of the flange. This adapter may be used to extract liquid from a container closed with a stopper or to fill the container with a liquid by means of a standard syringe. It allows liquids to be transferred in a quick and reliable manner, without any risk of injury and with little effort.

IPC 1-7

**A61J 1/20**

IPC 8 full level

**A61J 1/00** (2006.01); **A61J 1/20** (2006.01)

CPC (source: EP US)

**A61J 1/2096** (2013.01 - EP US); **A61J 1/201** (2015.05 - EP US); **A61J 2200/10** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9715267 A2 19970501**; **WO 9715267 A3 19970717**; AT E233530 T1 20030315; AU 1765097 A 19970515; DE 59610206 D1 20030410; DK 0957883 T3 20030630; EP 0957883 A2 19991124; EP 0957883 B1 20030305; ES 2192236 T3 20031001; PT 957883 E 20030731; US 6039093 A 20000321

DOCDB simple family (application)

**DE 9602027 W 19961018**; AT 96945696 T 19961018; AU 1765097 A 19961018; DE 59610206 T 19961018; DK 96945696 T 19961018; EP 96945696 A 19961018; ES 96945696 T 19961018; PT 96945696 T 19961018; US 5179198 A 19980827