

Title (en)
DEVICES FOR FILLING A MULTI-USE SYRINGE OR SINGLE-USE SYRINGE

Title (de)
VORRICHTUNGEN ZUM BEFÜLLEN EINER MEHRFACHSPRITZE ODER EINFACHSPRITZE

Title (fr)
DISPOSITIF DE REMPLISSAGE D'UNE SERINGUE MULTIPLE OU SIMPLE

Publication
EP 2442727 A1 20120425 (DE)

Application
EP 09775086 A 20091217

Priority
• CH 2009000401 W 20091217
• CH 9622009 A 20090619

Abstract (en)
[origin: WO2010145041A1] A filling device (300) for breaking at least one ampoule (700) and for filling a syringe (600) from the ampoule is disclosed. The filling device has a base body (310), which delimits at least one hollow space (315). At the distal end, each hollow space has a removal opening, which is connected to a port (313) for the multi-use syringe. A breaking unit is designed to break the ampoule located in the hollow space. In some embodiments, the breaking unit comprises an actuating element, which is used to slide at least two ampoules onto a wedge-shaped structure, respectively, by way of a single actuating movement in the longitudinal direction, in order to apply a lateral force on the tips of the ampoules. In other embodiments, the breaking unit comprises an actuating element (320) that can be inserted in the transverse direction and acts directly on the tips of the ampoules in order to shatter or shear them off.

IPC 8 full level
A61B 17/00 (2006.01); **A61B 19/00** (2006.01); **A61J 1/06** (2006.01); **A61J 1/20** (2006.01); **A61M 5/178** (2006.01); **A61M 5/19** (2006.01); **A61M 5/24** (2006.01)

CPC (source: EP US)
A61B 17/00491 (2013.01 - EP US); **A61J 1/065** (2013.01 - EP US); **A61J 1/2096** (2013.01 - EP US); **B67B 7/92** (2013.01 - EP US); **A61B 2017/00495** (2013.01 - EP US); **A61B 2090/037** (2016.02 - EP US); **A61J 1/20** (2013.01 - US); **A61J 1/201** (2015.05 - EP US); **A61J 1/2086** (2015.05 - EP US); **A61M 5/1782** (2013.01 - US); **A61M 5/19** (2013.01 - EP US)

Citation (search report)
See references of WO 2010145041A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010145041 A1 20101223; CN 102458262 A 20120516; EP 2442727 A1 20120425; US 2012055580 A1 20120308; US 9131930 B2 20150915

DOCDB simple family (application)
CH 2009000401 W 20091217; CN 200980159969 A 20091217; EP 09775086 A 20091217; US 200913318892 A 20091217