

Title (en)

RETRACTABLE SAFETY SYRINGE WITH NON-LOADED SEAL

Title (de)

EINZIEHBARE SICHERHEITSSPRITZE MIT UNBELASTETER ABDICHTUNG

Title (fr)

SERINGUE DE SÉCURITÉ RÉTRACTABLE COMPORTANT UN JOINT D'ÉTANCHÉITÉ NON CHARGÉ

Publication

EP 2595682 A1 20130529 (EN)

Application

EP 11810503 A 20110722

Priority

- US 84288510 A 20100723
- US 84288410 A 20100723
- US 2011045116 W 20110722

Abstract (en)

[origin: WO2012012783A1] A retractable safety syringe may have a needle, needle holder, syringe body, a shaft seal, and a plunger assembly. A proximal portion of the body and a piston of the plunger may define a vacuum chamber. The plunger assembly may comprise a shaft coupled to a piston. The shaft may have at least one non-engaging portion and at least one engaging portion. The plunger assembly is movable between a storage position and working positions. In the storage position, little or no force is exerted on the shaft seal by the non-engaging portion. In the working positions, the engaging portion is in sealing engagement with the shaft seal to seal the vacuum chamber. Stopper movement of the retractable safety syringe may be reduced or eliminated if the retractable safety syringe is prefilled.

IPC 8 full level

A61M 5/19 (2006.01); **A61M 5/315** (2006.01); **A61M 5/32** (2006.01)

CPC (source: EP)

A61M 5/31511 (2013.01); **A61M 5/3234** (2013.01); **A61M 2005/3224** (2013.01); **A61M 2005/3242** (2013.01)

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 2012012783 A1 20120126; AU 2011280918 A1 20130207; AU 2011280918 B2 20130502; CA 2806331 A1 20120126; CN 103068422 A 20130424; EP 2595676 A1 20130529; EP 2595676 A4 20140101; EP 2595682 A1 20130529; EP 2595682 A4 20140101; WO 2012012784 A1 20120126; WO 2012012784 A8 20120405

DOCDB simple family (application)

US 2011045116 W 20110722; AU 2011280918 A 20110722; CA 2806331 A 20110722; CN 201180036132 A 20110722; EP 11810503 A 20110722; EP 11810504 A 20110722; US 2011045117 W 20110722