

Title (en)

MEDICAL INJECTION DEVICES WITH SAFETY FEATURES.

Title (de)

MEDIZINISCHE INJEKTIONSVORRICHTUNG MIT SICHERHEITSEINRICHTUNG.

Title (fr)

DISPOSITIF MEDICAL D'INJECTION COMPRENANT UN SYSTEME DE SECURITE.

Publication

**EP 0630268 A4 19950628 (EN)**

Application

**EP 93907312 A 19930308**

Priority

- US 9302079 W 19930308
- US 85037992 A 19920310

Abstract (en)

[origin: WO9317732A2] Improvements to a hypodermic needle disposed within a retractable sleeve comprised of a plurality of longitudinal slats extending between a base carrying the needle and an outer end covering the needle's tip. There is a releasable base attaching to a device such as a syringe. The base supports a hard cover used to attach and release the needle and sleeve. A bell end provides a point of sliding on the needle behind the tip and viewing of the tip when transparent. The tip is placed in a pre-established orientation and the sleeve is marked so that the needle can be positioned before the sleeve is retracted. Where a spring-biased collar is used over the sleeve, the base has gripping tabs to hold the spring, the collar has an extended area for sliding stacking of the spring upon retraction, and another extended area for protecting the front holding projections when the sleeve is extended. A dental version has the slats at the rear to fold outward outside the patient's mouth. By reversing the front projections, the sleeve locks up after one use. A strongback adjacent the front end of the sleeve helps in creating a repeatable folding pattern. A gripping ring aids in manually retracting the sleeve. Living hinges also help in creating a repeatable folding pattern. The living hinges may include indentations representing an identification number.

IPC 1-7

**A61M 3/00**; **A61M 5/00**; **A61M 5/32**

IPC 8 full level

**A61M 5/32** (2006.01)

CPC (source: EP KR)

**A61M 3/00** (2013.01 - KR); **A61M 5/00** (2013.01 - KR); **A61M 5/3275** (2013.01 - EP); **A61M 5/3202** (2013.01 - EP)

Citation (search report)

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- See references of WO 9317732A2

Designated contracting state (EPC)

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**WO 9317732 A2 19930916**; **WO 9317732 A3 19931028**; BR 9306051 A 19971118; CA 2131323 A1 19930916; EP 0630268 A1 19941228; EP 0630268 A4 19950628; IL 104978 A0 19930708; JP H07504346 A 19950518; KR 950700088 A 19950116

DOCDB simple family (application)

**US 9302079 W 19930308**; BR 9306051 A 19930308; CA 2131323 A 19930308; EP 93907312 A 19930308; IL 10497893 A 19930308; JP 51595593 A 19930308; KR 19940703142 A 19940909