

Title (en)  
METHOD OF INTRADERMALLY INJECTING SUBSTANCES

Title (de)  
METHODE ZUR INTRADERMALEN INJEKTION VON SUBSTANZEN

Title (fr)  
PROCEDE D'INJECTION INTRADERMIQUE DE SUBSTANCES

Publication  
**EP 1381415 A1 20040121 (EN)**

Application  
**EP 01927023 A 20010413**

Priority  
US 0112251 W 20010413

Abstract (en)  
[origin: WO02083216A1] A method of making an intradermal injection using a drug delivery device containing the substance to be injected. A device for practising the method includes a needle cannula having a forward tip and a limiter portion having a skin engaging surface surrounding the needle cannula. The needle cannula is in fluid communication with the substance and the tip of the needle cannula extends beyond the skin engaging surface a distance equal to approximately 0.5 mm to 3.0 mm. The needle cannular includes a fixed angle of orientation relative to the plane of the skin engaging surface. The skin engaging surface limits penetration of the needle tip into the skin so that the substance can be expelled through the needle tip into the dermis layer. Preferably, the fixed angle of orientation of the needle cannula is generally perpendicular relative to the skin surface, and the skin engaging surface is generally flat.

IPC 1-7  
**A61M 5/46**

IPC 8 full level  
**A61K 39/145** (2006.01); **A61K 45/00** (2006.01); **A61M 5/28** (2006.01); **A61M 5/32** (2006.01); **A61M 5/46** (2006.01); **A61M 5/31** (2006.01)

CPC (source: EP)  
**A61M 5/46** (2013.01); **A61M 2005/3104** (2013.01)

Citation (search report)  
See references of WO 02083216A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02083216 A1 20021024**; BR 0116973 A 20041013; CA 2444377 A1 20021024; CA 2444377 C 20140902; CN 1520320 A 20040811; EP 1381415 A1 20040121; JP 2004528896 A 20040924; MX PA03009369 A 20040129

DOCDB simple family (application)  
**US 0112251 W 20010413**; BR 0116973 A 20010413; CA 2444377 A 20010413; CN 01823292 A 20010413; EP 01927023 A 20010413; JP 2002581017 A 20010413; MX PA03009369 A 20010413