

Title (en)  
Perforating needle

Title (de)  
Perforierende Nadel

Title (fr)  
Aiguille perforante

Publication  
**EP 2308452 B1 20120711 (FR)**

Application  
**EP 10187190 A 20101011**

Priority  
FR 0957128 A 20091012

Abstract (en)  
[origin: EP2308452A1] The needle (1) has a distal portion provided with a transversal section (4) whose polygonal shape forms projecting corners (5) such that the needle having an outer longitudinal edge (6) is extended along the distal portion. Two fluid passage channels are offset with respect to one another along a transversal direction. The outer longitudinal edge forms draft angles from a proximal connection end towards a free distal perforating end.

IPC 8 full level  
**A61J 1/20** (2006.01); **A61M 5/162** (2006.01)

CPC (source: EP)  
**A61J 1/2096** (2013.01); **A61J 1/201** (2015.05); **A61J 1/2013** (2015.05); **A61J 1/2065** (2015.05); **A61J 2200/10** (2013.01)

Cited by  
CN113333653A; EP2872201A4; IL279096B; IL279096B2; KR20140044910A; EP2731652A4; EP3050588A1; US9789027B2; US11077976B2; WO2013066435A2; CN104379198A; EP2790757A4; EP3666246A1; US10799423B2

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)  
**EP 2308452 A1 20110413; EP 2308452 B1 20120711**; FR 2951075 A1 20110415; FR 2951075 B1 20120203

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