

Title (en)  
NEEDLE AND DEVICE FOR SOLID PHASE MICRO EXTRACTION

Title (de)  
NADEL UND VORRICHTUNG FÜR FESTPHASEN-MIKROEXTRAKTION

Title (fr)  
AIGUILLE ET DISPOSITIF POUR MICRO-EXTRACTION EN PHASE SOLIDE

Publication  
**EP 2104856 A1 20090930 (FR)**

Application  
**EP 07859470 A 20071220**

Priority

- IB 2007055246 W 20071220
- EP 06127003 A 20061222
- EP 07859470 A 20071220

Abstract (en)  
[origin: EP1936384A1] The needle (1) has a closed tip, and lateral holes arranged in a zone that is situated from an adsorbent material (2) e.g. quartz wool, towards a direction of the closed tip. The material is constituted by a set of non connected particles, where the diameter of the holes is dimensioned so as to retain the particles in the needle. A retaining unit e.g. baffle, retains the material at the proximal side of the needle. A groove is arranged toward the tip. An independent claim is also included for a method for fabricating a hollow needle.

IPC 8 full level  
**G01N 35/10** (2006.01); **G01N 1/34** (2006.01); **G01N 1/40** (2006.01); **G01N 30/00** (2006.01)

CPC (source: EP US)  
**G01N 1/34** (2013.01 - EP US); **G01N 35/1079** (2013.01 - EP US); **G01N 1/405** (2013.01 - EP US); **G01N 30/08** (2013.01 - EP US); **G01N 30/12** (2013.01 - EP US); **G01N 2001/4011** (2013.01 - EP US); **G01N 2030/009** (2013.01 - EP US); **G01N 2030/025** (2013.01 - EP US); **G01N 2030/062** (2013.01 - EP US); **G01N 2035/1053** (2013.01 - EP US); **Y10T 29/49826** (2015.01 - EP US)

Citation (search report)  
See references of WO 2008078292A1

Citation (examination)

- US 2003021733 A1 20030130 - ANDRESEN BRIAN D [US], et al
- US 5691206 A 19971125 - PAWLISZYN JANUSZ B [CA]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1936384 A1 20080625**; EP 2104856 A1 20090930; JP 2010513915 A 20100430; US 2010000342 A1 20100107; WO 2008078292 A1 20080703

DOCDB simple family (application)  
**EP 06127003 A 20061222**; EP 07859470 A 20071220; IB 2007055246 W 20071220; JP 2009542374 A 20071220; US 52059607 A 20071220