

Title (en)
TROCAR

Title (de)
TROKAR

Title (fr)
TROCART

Publication
EP 2278928 A1 20110202 (FR)

Application
EP 09746135 A 20090505

Priority
• IB 2009005521 W 20090505
• CH 7332008 A 20080514

Abstract (en)
[origin: WO2009138839A1] The invention relates to a trocar including a main tube (1) defined by a proximal end (2) and a distal end (13), comprising a central duct placed between said ends (2,13), and adapted to receive one or more minimally invasive surgery instruments (8); the lateral surface of the main tube (1) comprising at least one opening sized so as to enable placement of one or more other minimally invasive surgery instruments (9,10) transversely to the main tube (1), along a direction forming an angle relative to the main axis thereof, such that the distal end (10) of said other instrument(s) (9,10) is not present in the extension of the main axis of said tube (1).

IPC 8 full level
A61B 17/34 (2006.01); **A61B 19/00** (2006.01)

CPC (source: EP US)
A61B 17/3421 (2013.01 - EP US); **A61B 90/30** (2016.02 - EP US); **A61B 90/11** (2016.02 - EP US); **A61B 2017/3445** (2013.01 - EP US);
A61B 2017/3449 (2013.01 - EP US)

Citation (search report)
See references of WO 2009138839A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009138839 A1 20091119; BR PI0912662 A2 20160126; CA 2723736 A1 20091119; CN 102026583 A 20110420;
CN 102026583 B 20120815; EP 2278928 A1 20110202; JP 2011520492 A 20110721; RU 2010149140 A 20120620;
US 2011071348 A1 20110324

DOCDB simple family (application)
IB 2009005521 W 20090505; BR PI0912662 A 20090505; CA 2723736 A 20090505; CN 200980117570 A 20090505; EP 09746135 A 20090505;
JP 2011509025 A 20090505; RU 2010149140 A 20090505; US 99198709 A 20090505