

Title (en)
OPERATING DEVICE FOR USE IN LAPAROSCOPY

Title (de)
OPERATIONSVORRICHTUNG FÜR DEN LAPAROSKOPISCHEN EINSATZ

Title (fr)
INSTRUMENT D'OPÉRATION POUR LA LAPAROSCOPIE

Publication
EP 2713912 A1 20140409 (DE)

Application
EP 12748154 A 20120529

Priority
• DE 202011101151 U 20110527
• DE 2012100159 W 20120529

Abstract (en)
[origin: CA2836832A1] The invention relates to a device (1) for dispensing a substance (X) in a targeted manner into a hollow space (200), for example a hollow organ, of a body cavity, in particular a therapeutic pneumoperitoneum, said device having: a trocar system with a trocar sleeve (45), wherein the trocar system (40) has a gas connection (43) to which a feed line (81) for insufflation gas can be attached, and a nozzle system (20) which, in its interior, forms a lumen (26) with a proximal end (21) and a distal end (22), wherein the nozzle system (20) has a needle nozzle (30), secured on the distal end (22) with the lumen (26), and is guided through the trocar sleeve (45).

IPC 8 full level
A61B 17/34 (2006.01); **A61B 17/00** (2006.01); **A61B 90/00** (2016.01); **A61M 11/02** (2006.01); **A61M 13/00** (2006.01); **B05B 5/00** (2006.01)

CPC (source: EP US)
A61B 17/3474 (2013.01 - EP US); **A61M 13/00** (2013.01 - EP US); **A61M 13/003** (2013.01 - EP US); **A61M 16/0093** (2014.02 - EP US); **A61B 17/00234** (2013.01 - EP US); **A61B 17/3494** (2013.01 - EP US); **A61B 2218/003** (2013.01 - EP US); **A61M 11/02** (2013.01 - EP US); **A61M 15/02** (2013.01 - EP US)

Citation (examination)
• US 2002183715 A1 20021205 - MANTELL ROBERT R [US], et al
• US 5098388 A 19920324 - KULKASHI RICHARD [US], et al
• See also references of WO 2012163346A1

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)
DE 202011101151 U1 20110726; CA 2836832 A1 20121206; CA 2836832 C 20190521; DE 102012104629 A1 20121129; EP 2713912 A1 20140409; JP 2014523268 A 20140911; US 2014142495 A1 20140522; US 9511197 B2 20161206; WO 2012163346 A1 20121206

DOCDB simple family (application)
DE 202011101151 U 20110527; CA 2836832 A 20120529; DE 102012104629 A 20120529; DE 2012100159 W 20120529; EP 12748154 A 20120529; JP 2014513052 A 20120529; US 201214122338 A 20120529