

Title (en)
MEDICAL VASCULAR LOCK WITH BLOCKING FUNCTION

Title (de)
MEDIZINISCHE GEFÄSSSCHLEUSE MIT BLOCKUNGSFUNKTION

Title (fr)
SAS VASCULAIRE MEDICAL AVEC FONCTION DE BLOCAGE

Publication
EP 1981563 A1 20081022 (DE)

Application
EP 06706701 A 20060207

Priority
EP 2006001049 W 20060207

Abstract (en)
[origin: WO2007090416A1] A vascular lock with a guide tube (1), and with valve means (4) that are provided at the proximal end and that permit the insertion of a catheter or instrument through the access lumen of the guide tube and into a vessel, is provided, in the area of the distal end of the guide tube, with balloon occlusion means (12) that comprise an occlusion balloon (13), which can be connected to a source of pressure medium via a separate lumen in the guide tube, such that it can be alternately inflated and deflated. The vascular lock can be used for non-medicinal blood pressure modulation and perfusion modulation, for example by being introduced into the infrarenal aorta and blocking or freeing the aorta depending on the heart cycle. The vascular lock can be part of a system for non-medicinal blood pressure modulation and perfusion modulation that includes a source of pressure medium for inflating and deflating the occlusion balloon (13) and contains a control device that controls the inflation and deflation of the balloon occlusion means as a function of control signals that are received. Various control methods are possible for this control.

IPC 8 full level
A61M 1/10 (2006.01); **A61F 2/958** (2013.01); **A61M 25/00** (2006.01)

CPC (source: EP US)
A61M 25/10 (2013.01 - EP US); **A61M 60/295** (2021.01 - EP US); **A61M 60/497** (2021.01 - EP US); **A61M 60/515** (2021.01 - EP US); **A61M 60/538** (2021.01 - EP US); **A61M 39/06** (2013.01 - EP US); **A61M 60/274** (2021.01 - EP); **A61M 60/833** (2021.01 - EP US); **A61M 2025/0037** (2013.01 - EP US); **A61M 2025/1052** (2013.01 - EP US)

Citation (search report)
See references of WO 2007090416A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007090416 A1 20070816; EP 1981563 A1 20081022; JP 2009525791 A 20090716; US 2010211008 A1 20100819

DOCDB simple family (application)
EP 2006001049 W 20060207; EP 06706701 A 20060207; JP 2008553623 A 20060207; US 22363606 A 20060207