

Title (en)  
DEVICES FOR MAINTAINING PATENCY OF SURGICALLY CREATED CHANNELS IN TISSUE

Title (de)  
VORRICHTUNGEN ZUR AUFRECHTERHALTUNG DER DURCHGÄNGIGKEIT VON OPERATIV GESCHAFFENEN KANÄLEN IN GEWEBE

Title (fr)  
DISPOSITIFS DESTINES A MAINTENIR LA PERMEABILITE DE CANAUX CHIRURGICALEMENT CREES DANS UN TISSU

Publication  
**EP 1648283 A4 20111221 (EN)**

Application  
**EP 04778682 A 20040719**

Priority  
• US 2004023304 W 20040719  
• US 48832203 P 20030718

Abstract (en)  
[origin: WO2005006963A2] Devices and methods for altering gaseous flow within a lung to improve the expiration cycle of an individual, particularly individuals having chronic obstructive pulmonary disease. The methods and devices create channels in lung tissue and maintain the patency of these surgically created channels in tissue. Maintaining the patency of the channels allows air to pass directly out of the lung tissue which facilitates the exchange of oxygen ultimately into the blood and/or decompresses hyper-inflated lungs.

IPC 8 full level  
**A61M 29/00** (2006.01); **A61B 17/00** (2006.01); **A61B 17/11** (2006.01); **A61B 17/34** (2006.01); **A61B 18/14** (2006.01); **A61B 18/24** (2006.01); **A61F 2/04** (2013.01); **A61F 2/84** (2006.01); **A61F 2/90** (2006.01)

IPC 8 main group level  
**A61B** (2006.01)

CPC (source: EP)  
**A61B 8/12** (2013.01); **A61B 17/00234** (2013.01); **A61B 18/1492** (2013.01); **A61B 18/24** (2013.01); **A61B 2017/1139** (2013.01); **A61B 2017/3486** (2013.01); **A61F 2002/043** (2013.01)

Citation (search report)  
• [X] WO 0021461 A2 20000420 - VENTRICA INC [US]  
• [X] US 2002123786 A1 20020905 - GITTINGS DARIN C [US], et al  
• [A] WO 9857590 A1 19981223 - SCIMED LIFE SYSTEMS INC [US]  
• [A] US 2003120292 A1 20030626 - PARK ADRIAN EDWARD [US], et al  
• See references of WO 2005006963A2

Cited by  
US10272260B2; US9913969B2; US10369339B2; US9993306B2; US10631938B2; US12016640B2

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

DOCDB simple family (publication)  
**WO 2005006963 A2 20050127; WO 2005006963 A3 20061005**; EP 1648283 A2 20060426; EP 1648283 A4 20111221; EP 1648284 A2 20060426; EP 1648284 A4 20111228; WO 2005006964 A2 20050127; WO 2005006964 A3 20061019

DOCDB simple family (application)  
**US 2004023304 W 20040719**; EP 04778682 A 20040719; EP 04778683 A 20040719; US 2004023305 W 20040719