

Title (en)  
PERISTALTIC PUMP WITH A REMOVABLE AND DEFORMABLE CARRIER

Title (de)  
SCHLAUCHPUMPE MIT ENTFERNBAREM UND VERFORMBAREM TRÄGER

Title (fr)  
POMPE PERISTALTIQUE A PORTEE AMOVIBLE DEFORMABLE

Publication  
**EP 1664537 B1 20100106 (FR)**

Application  
**EP 04787319 A 20040907**

Priority  
• FR 2004002264 W 20040907  
• FR 0310557 A 20030908

Abstract (en)  
[origin: US2007020130A1] The inventive peristaltic pump ( 100 ) comprises a removable carrier ( 400 ) against which a flexible tube is pressed by rollers. Said carrier ( 400 ) comprises an intermediate deformable section ( 401 ) having an internal cylindrical surface ( 405 ) whose axis (A) coincides with the main axis of rotation of the rollers and lateral rigid arms ( 403, 404 ) arranged on both sides of said intermediate section. The free ends (E, F) of the lateral arms comprise guiding means ( 412, 414 ), respectively. The pump case is provided with paths on which said guiding means are slidable. The path directions are predefined in order to constrain the displacement of the free ends of the lateral arms and to deform the intermediate section in such a way that the radius of the internal face is modified keeping the axis thereof coinciding with the main axis, thereby making it possible to use a tube having variable characteristics for said peristaltic pump.

IPC 8 full level  
**F04B 43/12** (2006.01)

CPC (source: EP US)  
**F04B 43/1253** (2013.01 - EP US); **F04B 43/1284** (2013.01 - EP US)

Cited by  
WO2023025430A1; FR3126458A1

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)  
**US 2007020130 A1 20070125; US 7704057 B2 20100427**; AT E454554 T1 20100115; CN 101415946 A 20090422; CN 101415946 B 20110511; DE 602004025012 D1 20100225; EP 1664537 A2 20060607; EP 1664537 B1 20100106; FR 2859507 A1 20050311; FR 2859507 B1 20060217; JP 2007509267 A 20070412; WO 2005026550 A2 20050324; WO 2005026550 A3 20090312

DOCDB simple family (application)  
**US 57014906 A 20060703**; AT 04787319 T 20040907; CN 200480031649 A 20040907; DE 602004025012 T 20040907; EP 04787319 A 20040907; FR 0310557 A 20030908; FR 2004002264 W 20040907; JP 2006525169 A 20040907