

Title (en)

Peristaltic pump having an adaptive variable speed control

Title (de)

Peristaltische Pumpe mit einer adaptiven Steuerung für die veränderliche Antriebsdrehgeschwindigkeit

Title (fr)

Pompe péristaltique ayant un réglage adaptif de la vitesse variable

Publication

**EP 1835179 A1 20070919 (EN)**

Application

**EP 07103180 A 20070227**

Priority

US 37545306 A 20060314

Abstract (en)

A peristaltic pump (10), comprises a rotatable shaft (24) and a roller head (14) carrying a plurality of rollers (16) mounted to the shaft, adapted in use to displace fluid along a segment of a flexible fluid channel (26), wherein the speed of rotation of the rollers may be varied. An adaptive variable speed control is provided which may be configured to accelerate rotation of the pump through known minimum flow points, and to decelerate rotation of the pump through known maximum flow points responsive to a pressure sensor (126), and/or a position encoder (25), or based on a variable or pre-set pump pulsation profile.

IPC 8 full level

**F04B 43/12** (2006.01); **F04B 49/20** (2006.01)

CPC (source: EP US)

**F04B 43/12** (2013.01 - EP US); **F04B 43/1238** (2013.01 - EP US); **F04B 43/1253** (2013.01 - EP US); **F04B 43/1269** (2013.01 - EP US); **F04B 49/20** (2013.01 - EP US)

Citation (applicant)

US 5188604 A 19930223 - ORTH JEFFREY L [US]

Citation (search report)

- [XY] US 2005095155 A1 20050505 - BLIGHT DAVID D [US], et al
- [Y] WO 9737703 A1 19971016 - BAXTER INT [US]
- [X] GB 2207196 A 19890125 - BODENSEEWERK PERKIN ELMER CO
- [X] US 5188604 A 19930223 - ORTH JEFFREY L [US]
- [A] FR 2466641 A1 19810410 - BOEUF LOLA LE [FR]
- [A] US 2003190244 A1 20031009 - DAVIS SHERMAN G [US], et al

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EP2184492A1

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1835179 A1 20070919**; **EP 1835179 B1 20090311**; AT E425363 T1 20090315; DE 602007000651 D1 20090423; ES 2321886 T3 20090612; JP 2007247646 A 20070927; US 2007217919 A1 20070920

DOCDB simple family (application)

**EP 07103180 A 20070227**; AT 07103180 T 20070227; DE 602007000651 T 20070227; ES 07103180 T 20070227; JP 2007065071 A 20070314; US 37545306 A 20060314