

Title (en)

Axial flow blood pump device

Title (de)

Blutpumpenvorrichtung mit axialem Durchfluss

Title (fr)

Dispositif de pompe sanguine à écoulement axial

Publication

EP 2692369 A8 20140402 (EN)

Application

EP 12005545 A 20120731

Priority

EP 12005545 A 20120731

Abstract (en)

[origin: EP2692369A1] The invention relates to an axial flow blood pump device comprising an integrated electromagnetic drive with a stationary stator assembly and a rotatable impeller assembly, wherein the stationary stator assembly at least comprises stator windings (3) and a bearing system (4) supporting the rotatable impeller assembly, the impeller assembly comprising at least one blade (9) and permanent magnets (10) interacting with the stator windings (3), wherein the stationary stator assembly comprises supporting elements (8) for mounting, in particular coaxially mounting the device in the interior of an anchoring system (7) being implantable into a vessel. The invention furthermore relates to a system comprising a device according to any of the preceding claims and a anchoring system (7), in particular a stent (7) surrounding the device, wherein the anchoring system (7) and the device, in particular the at least one blade (9) and the supporting members (8) of the device are in a collapsed / compressed / folded state for implanting the system into a vessel, the system being expandable / unfoldable after implantation.

IPC 8 full level

A61M 1/10 (2006.01)

CPC (source: EP US)

A61M 60/135 (2021.01 - EP US); **A61M 60/237** (2021.01 - EP US); **A61M 60/419** (2021.01 - EP US); **A61M 60/808** (2021.01 - EP US); **A61M 60/825** (2021.01 - EP US); **A61M 60/827** (2021.01 - EP US); **A61F 2/82** (2013.01 - EP US); **A61M 60/148** (2021.01 - EP US); **A61M 60/422** (2021.01 - EP US); **A61M 60/829** (2021.01 - EP US); **A61M 2205/04** (2013.01 - US); **A61M 2205/103** (2013.01 - US); **A61M 2210/12** (2013.01 - US)

Cited by

CN111166949A; CN103893849A; EP3829673A4; WO2020028312A1; US11541224B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2692369 A1 20140205; **EP 2692369 A8 20140402**; **EP 2692369 B1 20150415**; US 2015141739 A1 20150521; US 9370613 B2 20160621; WO 2014019646 A1 20140206

DOCDB simple family (application)

EP 12005545 A 20120731; EP 2013002120 W 20130717; US 201314395337 A 20130717