

Title (en)
VENTRICULAR ASSIST DEVICE WITH PRE-FORMED INFLATION BLADDER

Title (de)
HERZKAMMERUNTERSTÜTZUNGSVORRICHTUNG MIT VORGEFORMTER AUFBLASBARER HÜLLE

Title (fr)
DISPOSITIF D'ASSISTANCE VENTRICULAIRE A VESSIE GONFLABLE PREFORMEE

Publication
EP 1126886 A4 20030917 (EN)

Application
EP 99956912 A 19991104

Priority
• US 9926042 W 19991104
• US 10701498 P 19981104
• US 10701698 P 19981104

Abstract (en)
[origin: WO0025842A1] A ventricular assist device (10) is designed to assist a heart to pump blood by applying uniform pressure to a majority portion of an exterior ventricular surface of the heart. A specially configured bladder (14) is utilized to apply the pressure, and is prefabricated in an inflated, unfolded configuration to reduce wall stresses in the bladder when inflated. The inflatable bladder may also comprise a plurality of individually inflatable compartments (18). The compartments may have different dimensions to complement the dimensions of corresponding segments of the heart, and may be inflated at different times or at different pressures based upon the determined needs of the heart.

IPC 1-7
A61M 1/10; **A47C 27/10**; **B29C 69/00**

IPC 8 full level
A61M 1/10 (2006.01); **A61M 60/191** (2021.01); **A61M 60/289** (2021.01); **A61M 60/468** (2021.01); **A61M 60/839** (2021.01)

CPC (source: EP US)
A61M 60/191 (2021.01 - EP US); **A61M 60/289** (2021.01 - EP US); **A61M 60/468** (2021.01 - EP US); **A61M 60/839** (2021.01 - EP US)

Citation (search report)
• [E] WO 9855165 A1 19981210 - WOODARD JOHN C [AU], et al
• [XY] US 5119804 A 19920609 - ANSTADT GEORGE L [US]
• [X] US 4130617 A 19781219 - WALLACE DEAN R
• [Y] US 3371662 A 19680305 - JOZSEF HEID, et al
• [A] US 5596781 A 19970128 - GRAEBE ROBERT H [US]
• See references of WO 0025842A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0025842 A1 20000511; AU 1341900 A 20000522; BR 9915314 A 20020129; CA 2349627 A1 20000511; EP 1126886 A1 20010829; EP 1126886 A4 20030917; IL 142991 A0 20020421

DOCDB simple family (application)
US 9926042 W 19991104; AU 1341900 A 19991104; BR 9915314 A 19991104; CA 2349627 A 19991104; EP 99956912 A 19991104; IL 14299199 A 19991104