

Title (en)
CARDIAC ASSIST DEVICE

Title (de)
HERZUNTERSTÜTZUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ASSISTANCE CARDIAQUE

Publication
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Application
EP 98925332 A 19980609

Priority
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• AU PO723197 A 19970606

Abstract (en)
[origin: WO9855165A1] A cardiac assist device (30) including (a) a cup or like device (31) adapted to receive at least ventricular portions of a heart muscle therein; (b) within the cup (31), a diaphragm member (35) including a cardiac tissue contacting surface (36) having a biointegrating membrane (37) or layer by which at least portions of the diaphragm member (35) become biointegrated with the cardiac tissue; (c) a pneumatic chamber defined between at least a portion of the cup (31) and a portion of the diaphragm member whereby relative positive and negative pressures can be alternately induced in the pneumatic chamber so as to cause, respectively, compression and distension of at least portions of the heart muscle so as to at least assist systole and diastole of the heart muscle. In a particular form the biointegrating membrane or layer (37) comprises a plurality of strips (52) of biointegrating material attached to or forming part of the diaphragm member and separated by portions of the diaphragm member having no biointegrating material.

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IPC 8 full level
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Citation (search report)
• [XA] US 5558617 A 19960924 - HEILMAN MARLIN S [US], et al
• [A] US 5098369 A 19920324 - HEILMAN MARLIN S [US], et al
• See references of WO 9855165A1

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