

## Title (en)

SUBXIPHOID PROCEDURES AND APPARATUS FOR PLACEMENT OF CARDIAC DEFIBRILLATOR AND PACER

## Title (de)

SUBXIPHODE VERFAHREN UND VORRICHTUNG ZUR POSITIONIERUNG EINES DEFIBRILLATORS UND HERZSCHRITTMACHERS

## Title (fr)

INTERVENTIONS SOUS LA XIPHOIDE ET APPAREIL DESTINE A PLACER UN DEFIBRILLATEUR ET UN STIMULATEUR CARDIAQUE

## Publication

**EP 1596702 A4 20090121 (EN)**

## Application

**EP 04702482 A 20040115**

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## Abstract (en)

[origin: WO2004073506A2] Surgical procedure and surgical instruments include an electrode structure for insertion through tissue superiorly of a subxiphoid incision to a position posterior of an aspect of the sternum and anterior of the pericardium. The electrode structure may be expanded, for example, including an inflatable member to position a number of electrodes of the electrode structure in contact with the pericardium. Alternatively, an electrode structure on an insertion cannula may be retained in contact with the pericardium by the cannula positioned within the dissected tissue. Electrical conductors from the contacting electrodes are routed through the tract of dissected tissue toward the subxiphoid incision for attachment to a generator that is implanted in a subcutaneous pocket near the subxiphoid incision.

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## Citation (search report)

- [Y] WO 9728844 A1 19970814 - HEARTPORT INC [US]
- [Y] US 5433198 A 19950718 - DESAI JAWAHAR M [US]
- [Y] US 5246014 A 19930921 - WILLIAMS TERRELL M [US], et al
- [A] US 5129394 A 19920714 - MEHRA RAHUL [US]
- [A] US 2002072741 A1 20020613 - SLIWA JOHN W [US], et al
- [A] US 6178355 B1 20010123 - WILLIAMS TERRELL M [US], et al
- [A] WO 0158522 A1 20010816 - THERACARDIA INC [US]
- [A] FR 2799129 A1 20010406 - MEDTRONIC INC [US]
- [A] EP 0855196 A1 19980729 - SULZER OSYPKA GMBH [DE]
- [A] EP 0479435 A2 19920408 - VENTRITEX INC [US]
- See references of WO 2004073506A2

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