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(54) Title: **IMPLANTABLE ARTIFICIAL ORGAN DEVICES**

(57) Abstract: An implantable apparatus for delivering a first therapeutic agent within a living biological organism. The apparatus is comprised of a first in vitro cell culture for producing a first therapeutic agent, an implantable pump for delivering the first therapeutic agent, a controller, and a power supply.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 5/00
US CL : 424/93.7; 435/325, 289.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 424/93.7; 435/325

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,888,497 A (JAIN et al) 30 March 1999 (30.03.1999), see entire document.	1-41

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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