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(54) Title: PREVENTION AND TREATMENT OF CARDIAC ARRHYTHMIAS

(57) Abstract: Compositions of the invention, including compounds that bind to a receptor for a glucagon-like peptide-1, an incretin, a glucagon-like peptide-1 (GLP-1), an exendin, or an aforementioned compounds, are used in the prevention and treatment of arrhythmias associated with cardiac ischemia, cardiac ischemia-perfusion and/or congestive heart failure. The invention relates to both the method and compositions for such treatment.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40504

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/22; C07K 14/575
 US CL : 514/12; 530/324

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. : 514/12; 530/324

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)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NIKOLAIDIS et al. GLP-1 improves myocardial performance in conscious dogs with pacing induced heart failure. Journal of the American College of Cardiology. February 2001, Vol. 37, No. 2, Supplement 1, abstract #886-5, page 218A.	1-17
X	US 6,284,725 B1 (COOLIDGE et al) 04 September 2001 (04.09.2001), column 2, full paragraph 1; column 4, full paragraphs 1-2; column 6, full paragraph 3; paragraph	1-3, 7-9, 17
Y	bridging columns 6-7; column 7, full paragraph 1; column 11, full paragraph 1.	4-6, 10-16

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2002/0107206 A1 (COOLIDGE et al) 08 August 2002 (08.08.2002), paragraphs 0011, 0012, 0016, 0026, 0029, Table 1.	1-3, 7, 8, 17 ----- 4-6, 10-16

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

APS, MEDLINE

search terms: GLP-1, exendin, arrhythmia, heart rate, ischemic