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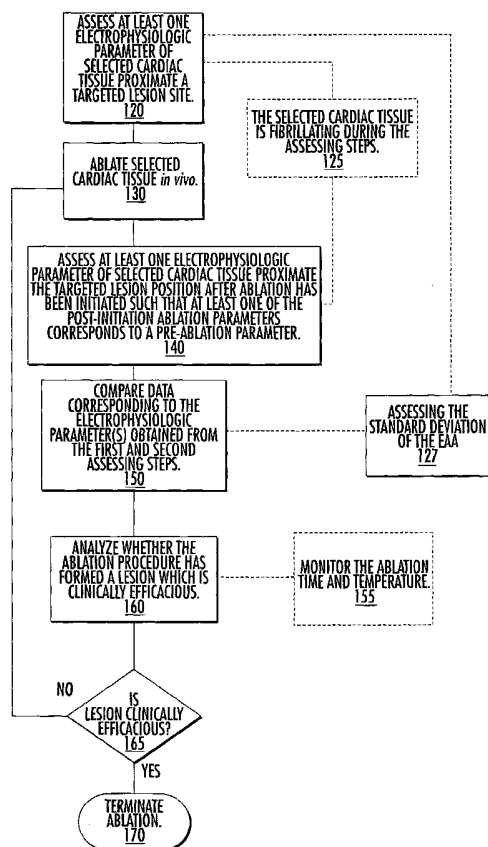
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[Continued on next page]

(54) Title: ELECTROPHYSIOLOGIC MEASURE OF ENDPOINTS FOR ABLATION LESIONS CREATED IN FIBRILLATING SUBSTRATES



(57) Abstract: Methods, systems, and computer program products measure electrical activity of the cardiac tissue (48) proximate the lesion site during the ablation treatment, and then compare the measurements to determine whether the lesion is clinically efficacious so as to be able to block myocardial propagation. The methods can include obtaining the measurements and performing the ablation therapy while the subject is experiencing atrial fibrillation and may measure the standard deviation (127) of the electrogram signal. Certain of the methods and systems measure (210) the electrical activity at multiple sites about the lesion site to detect whether the lesion is uniformly of sufficiently transmural about its length.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/09388

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A51B 18/18

US CL : 606/34

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. : 606/34, 40, 42; 607/101, 102, 122; 600/515, 518

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,954,665 A (BEN-HAIM) 21 September 1999, see entire document.	1-44
A	US 6,113,592 A (TAYLOR) 05 September 2000, see entire document.	1-44
A	US 6,042,580 A (SIMPSON) 28 March 2000, see entire document.	1-44

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

☐ See patent family annex.

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"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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