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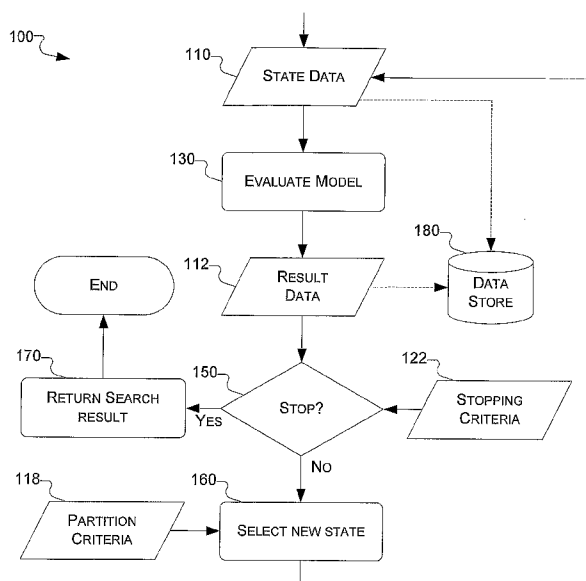
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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- with international search report
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(54) Title: **CONSTRAINED EXPLORATION FOR SEARCH ALGORITHMS**



(57) Abstract: Partition criteria is used to direct or constrain a search process that searches a search space for solution to a problem (Figure 1). The identification of states for further exploration of the search space is directed by the use of reference state and distance constraint information that is part of the partition criteria (Figure 1). Multiple processes use the same or different partition criteria to search relevant areas of search space (Figure 1). The peration of multiple processes, including the choice of partition criteria, is coordinated by a coordination or control process (Figure 1). Different search topologies are implemented by selecting various partition criteria (Figure 1).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/25170

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G06F 17/30(2006.01)

USPC: 707/3,4,5,6

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. : 707/3,4,5,6

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	US 2003/0217052 A1 (RUBENCZYK, Tal et al.) 20 November 2003, paragraphs [0001], [0034]-[0067], and [0515]-[0518]	1-20

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

☐ See patent family annex.

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Continuation of B. FIELDS SEARCHED Item 3:
EAST
search terms: neighborhood, nearest neighbor, search string, space