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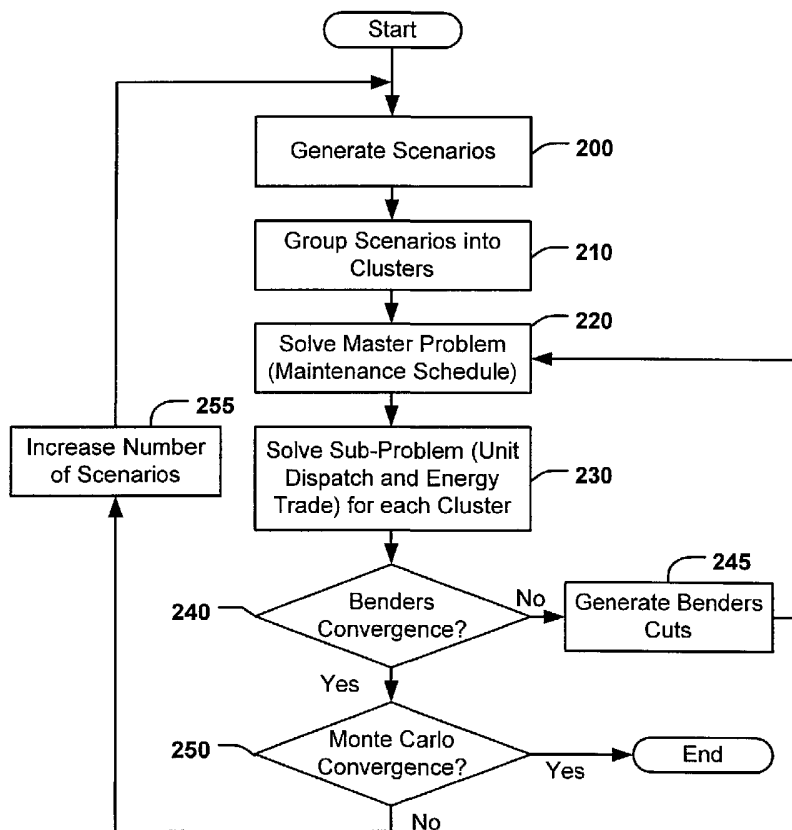
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(54) Title: ENERGY MARKET MAINTENANCE PLANNING



(57) Abstract: Maintenance planning is performed by combining the techniques of random process modeling, clustering, and dividing the maintenance planning problem into a master problem and sub-problems and iteratively solving the master problem (220) and the sub-problems (230). The master problem (220) may include maintenance variables and an objective function for minimizing maintenance cost and the sub-problems (230) may include operation variables and an objective function for maximizing operational profit.

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST, IEEE**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,930,762 A (MASCH) 27 July 1999, figures 1-6, 12 and corresponding text.	1-31
Y	US 6,219,649 B1 (JAMESON) 17 April 2001, figures 1, 9-12 and corresponding text.	1-31
Y	US 5,798,939 A (OCHOA et al.) 25 August 1998, figures 1-5 and corresponding text.	1-31

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