



[54] **DISTRIBUTED CONTROL SYSTEM IN WHICH INDIVIDUAL CONTROLLERS EXECUTED BY SHARING LOADS** 5.031.089 7/1991 Liu et al. 364/200
 5.313.584 5/1994 Tickner et al. 395/275

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[21] Appl. No.: **801,923**

[57] **ABSTRACT**

[22] Filed: **Feb. 14, 1997**

A distributed control system includes a plurality of controllers each composed of a plurality of processors and being coupled through a network. Each controller includes a scheduler for measuring a load; internal backup means for controlling which controller bears the load; backup request means for requesting another controller to bear the load; and backup accept means for answering to a request for bearing the load from another controller in accordance with the load of the requesting controller. Thus, the load which cannot be executed by one controller can be distributed and executed by other controllers in accordance with their loads.

Related U.S. Application Data

[63] Continuation of Ser. No. 203,295, Mar. 1, 1994, abandoned.

Foreign Application Priority Data

Mar. 1, 1993 [JP] Japan 5-39643

[51] Int. Cl.⁶ **G06F 13/00**

[52] U.S. Cl. **395/182.09**

[58] Field of Search 395/182.09, 182.08,
 395/182.02, 182.01, 183.01

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,482,962 11/1984 Amano et al. 364/431.11

21 Claims, 14 Drawing Sheets

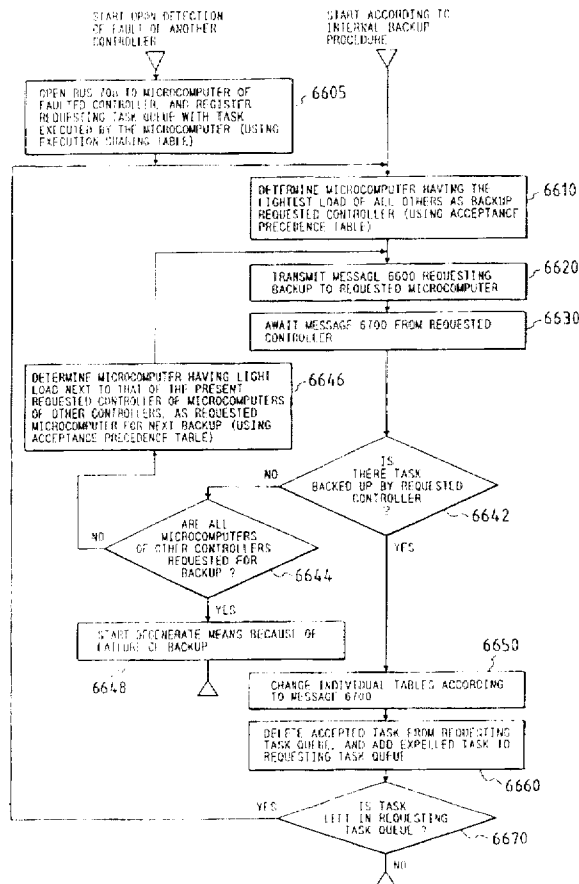


FIG. 1

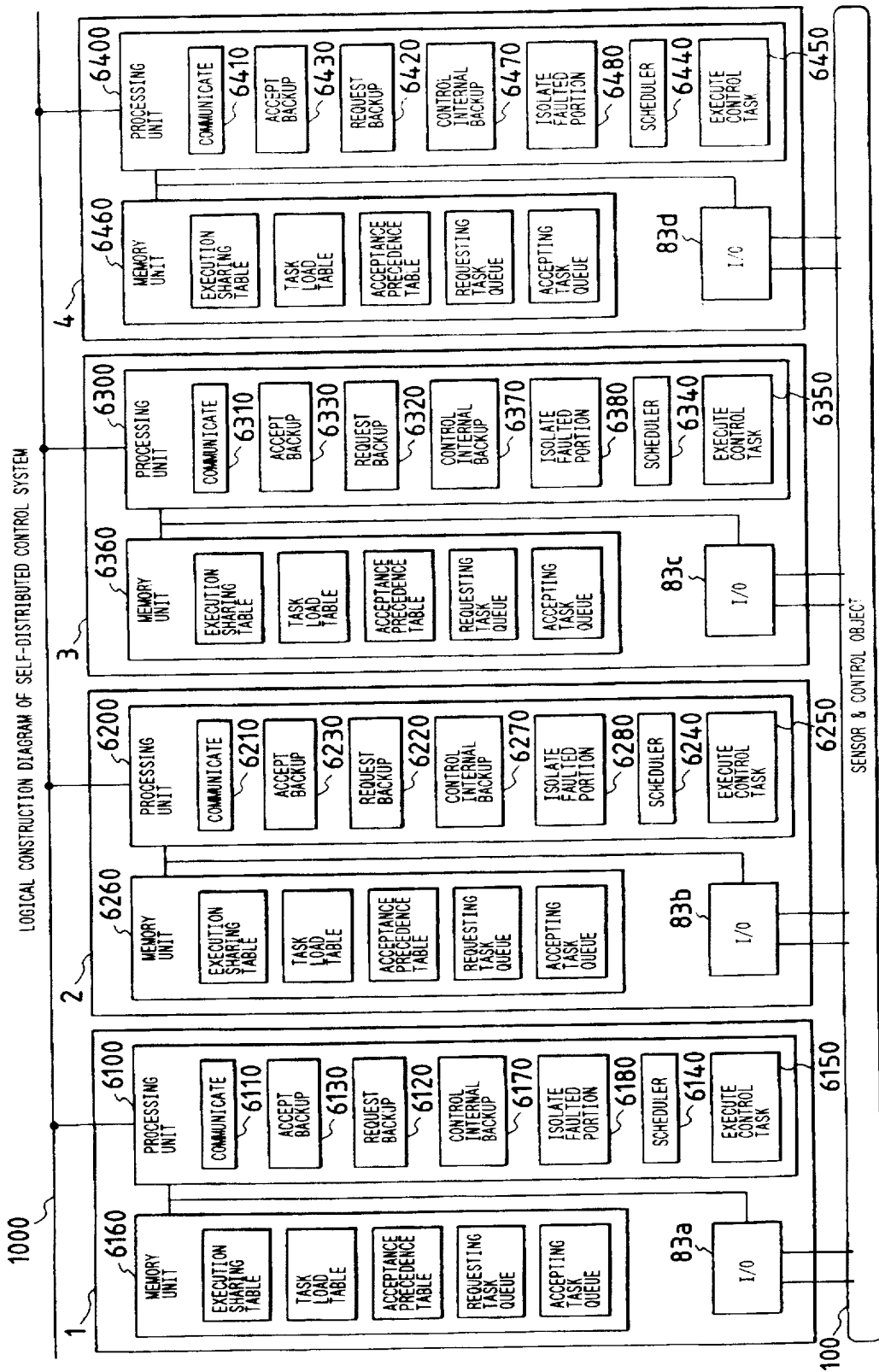


FIG. 2

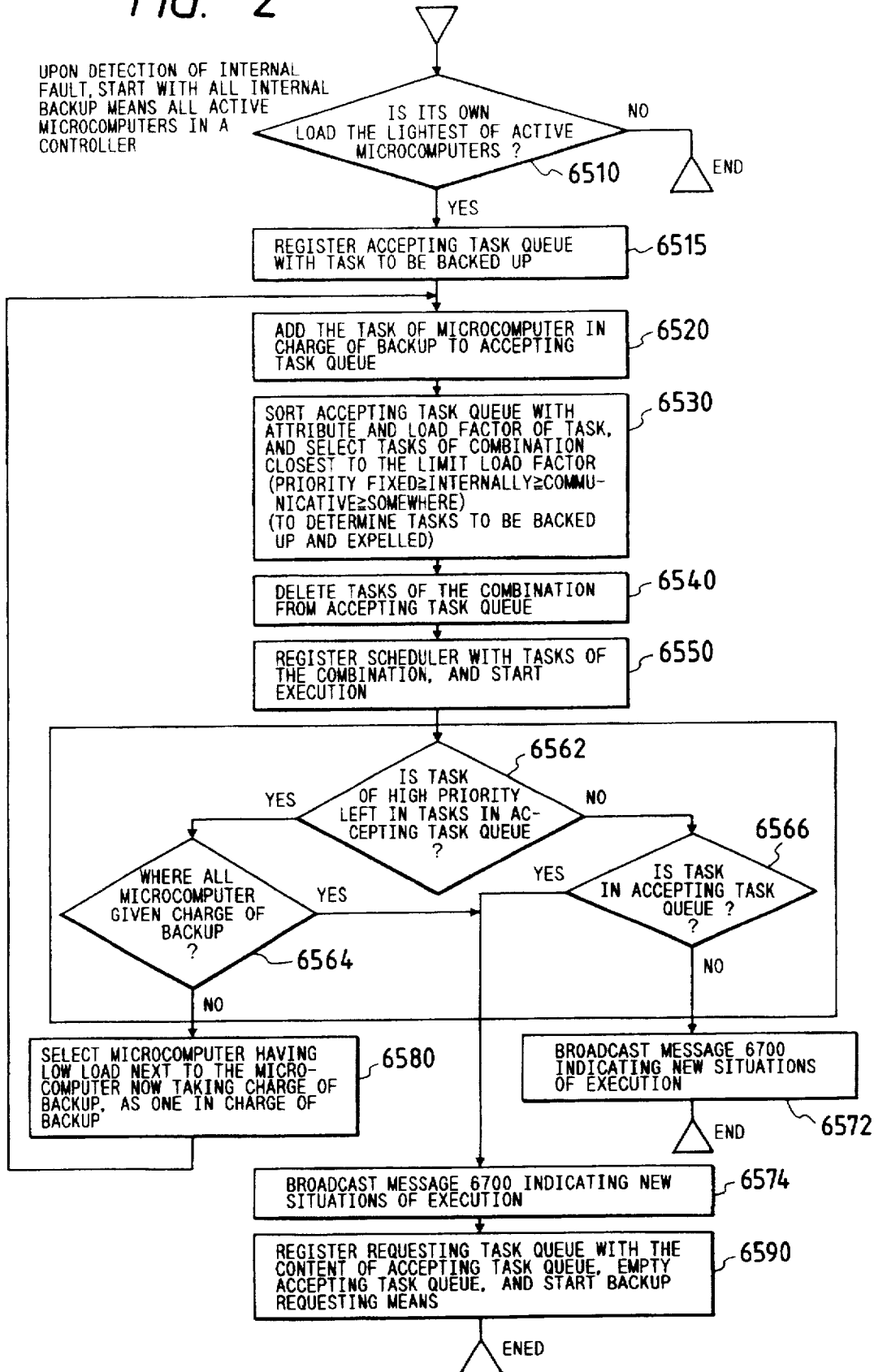


FIG. 3

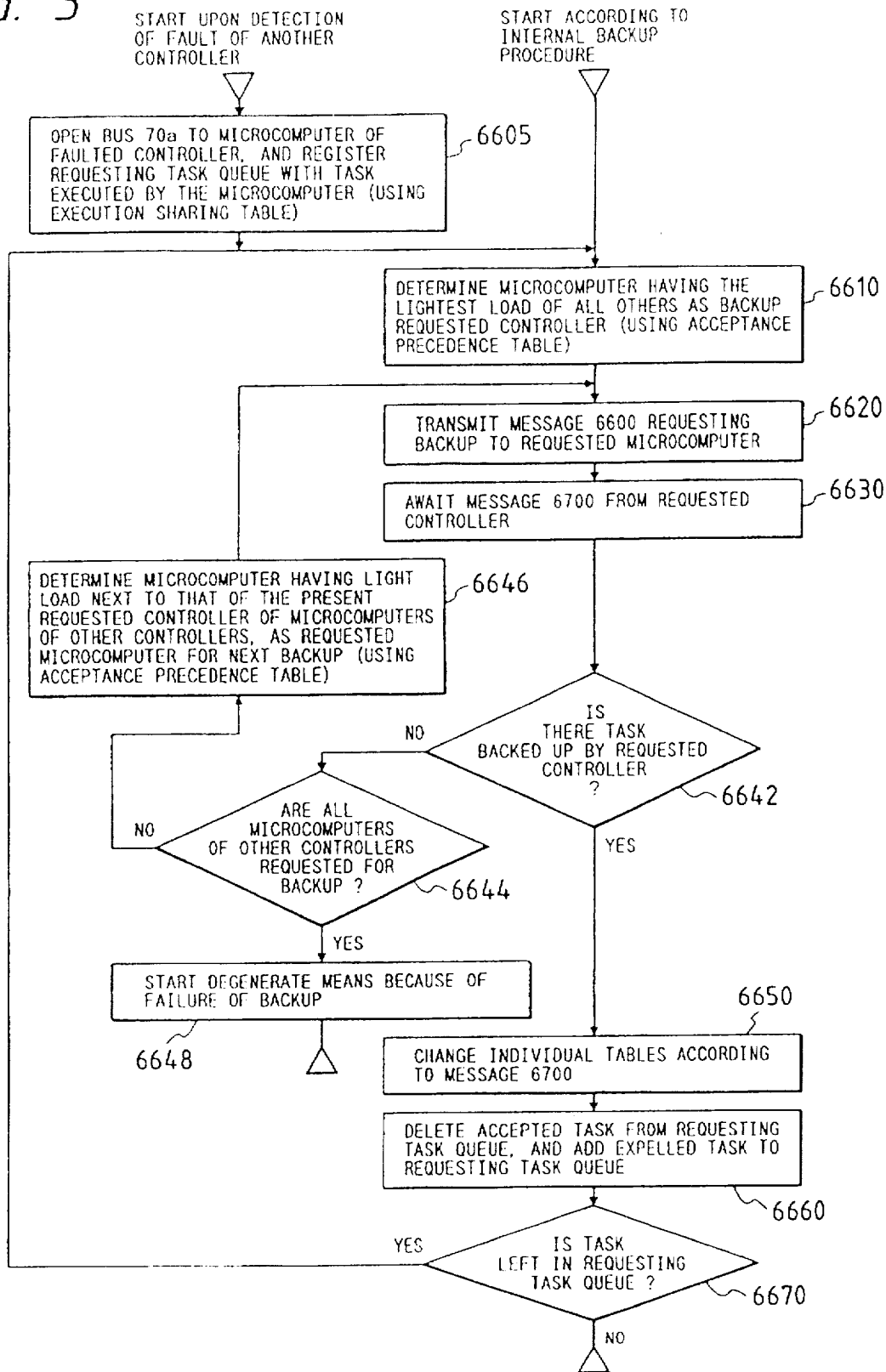
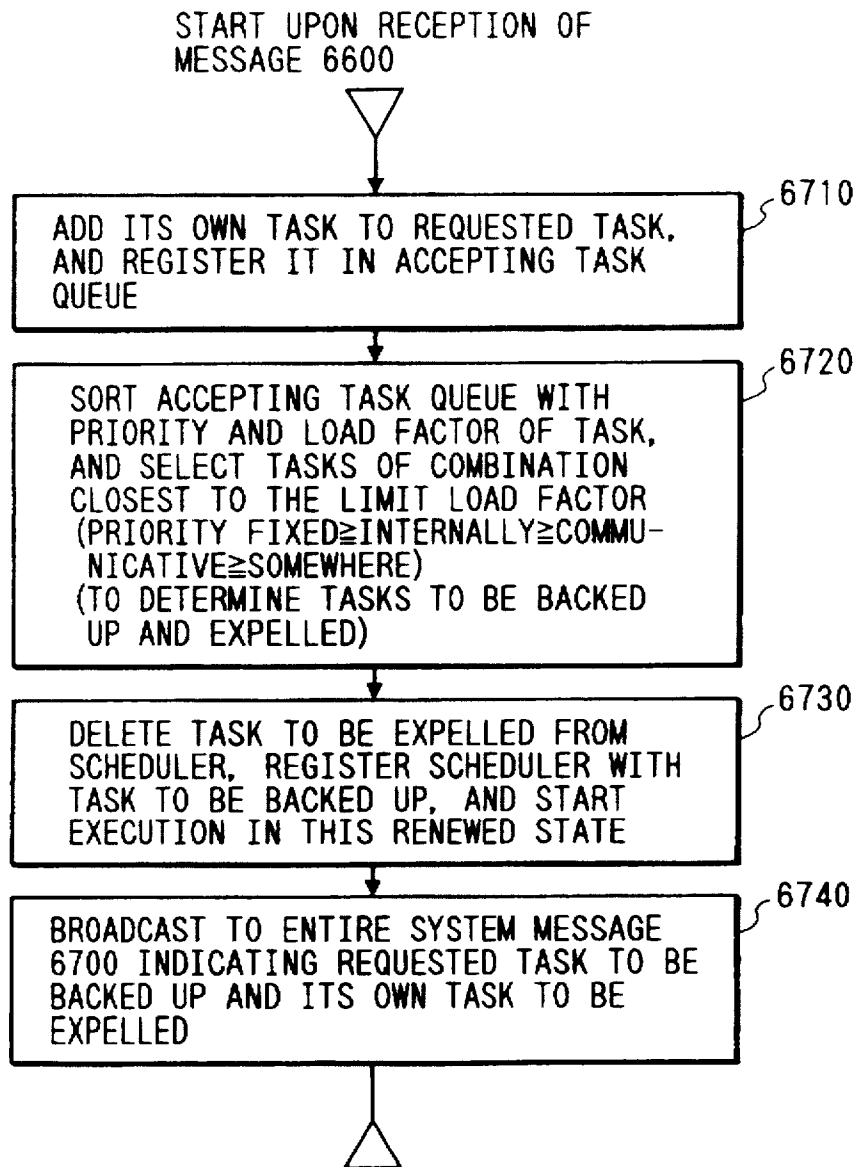


FIG. 4



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