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(54) **SYSTEM AND METHOD FOR CALCULATING THE THERMAL MASS OF A BUILDING**

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USPC **702/130**; 702/182

(58) **Field of Classification Search**
USPC ..... 702/130, 182; 700/276, 277, 278; 236/91 D; 165/58, 200, 287
See application file for complete search history.

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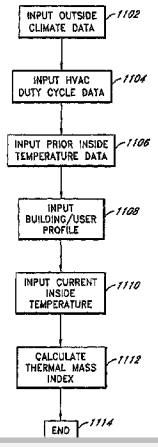
(57) **ABSTRACT**

The invention comprises a system for calculating a value for the effective thermal mass of a building. The climate control system obtains temperature measurements from at least a first location conditioned by the climate system. One or more processors receive measurements of outside temperatures from at least one source other than the control system and compare the temperature measurements from the first location with expected temperature measurements. The expected temperature measurements are based at least in part upon past temperature measurements obtained by said HVAC control system and said outside temperature measurements. The processors then calculate one or more rates of change in temperature at said first location.

13 Claims, 13 Drawing Sheets



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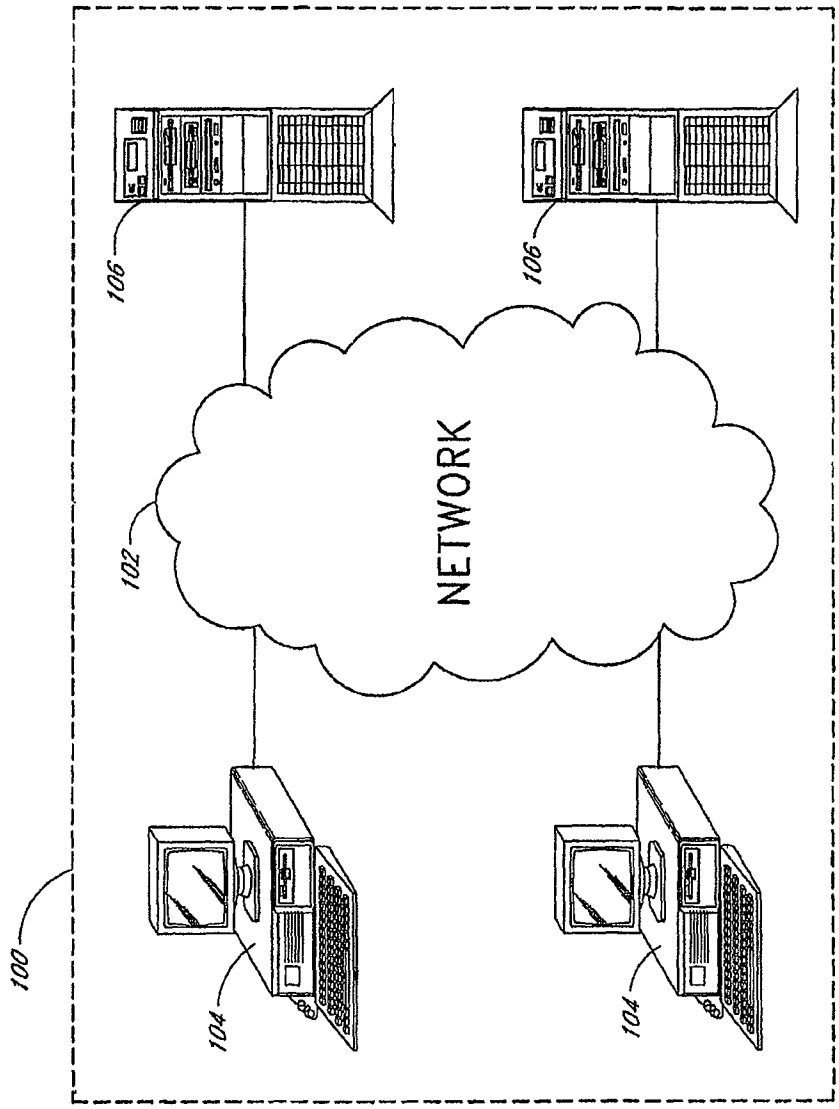

FIG. 1

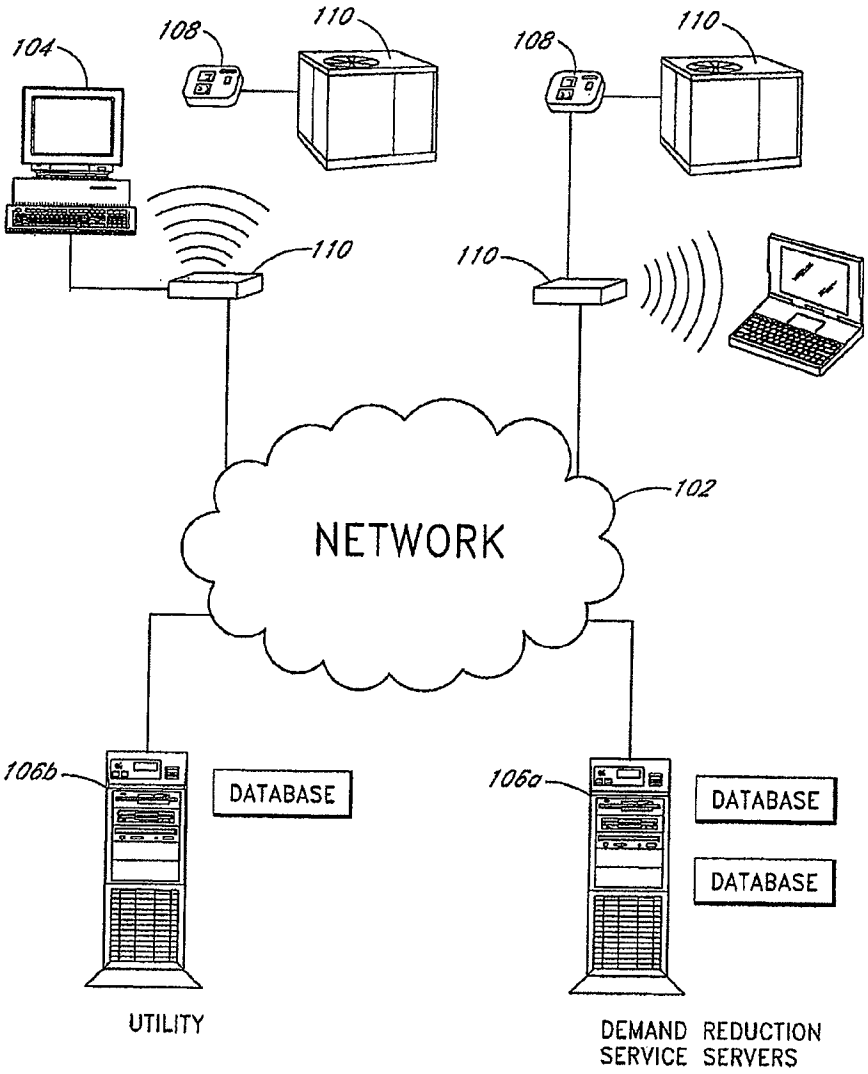

FIG. 2

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