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(54) **DYNAMICALLY MODIFYING THE RESOURCES OF A VIRTUAL SERVER**

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(58) **Field of Classification Search** 709/223–226, 709/229, 238; 370/231, 232, 235–236; 379/111; 714/35; 718/105
See application file for complete search history.

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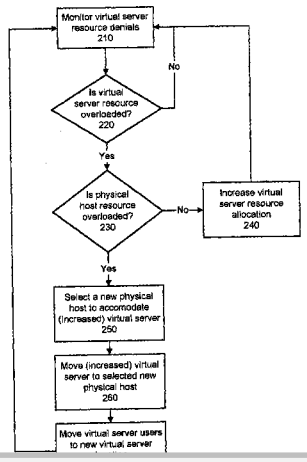
(57) **ABSTRACT**

A system and a method dynamically adjusts the quality of service guarantees for virtual servers based upon the resource demands experienced by the virtual servers. Virtual server resource denials are monitored to determine if a virtual server is overloaded based upon the resource denials. Virtual server resources are modified dynamically to respond to the changing resource requirements of each virtual server. Occasionally, a physical host housing a virtual server may not have additional resources to allocate to a virtual server requiring increased resources. In this instance, a virtual server hosted by the overloaded physical host is transferred to another physical host with sufficient resources.

4 Claims, 7 Drawing Sheets



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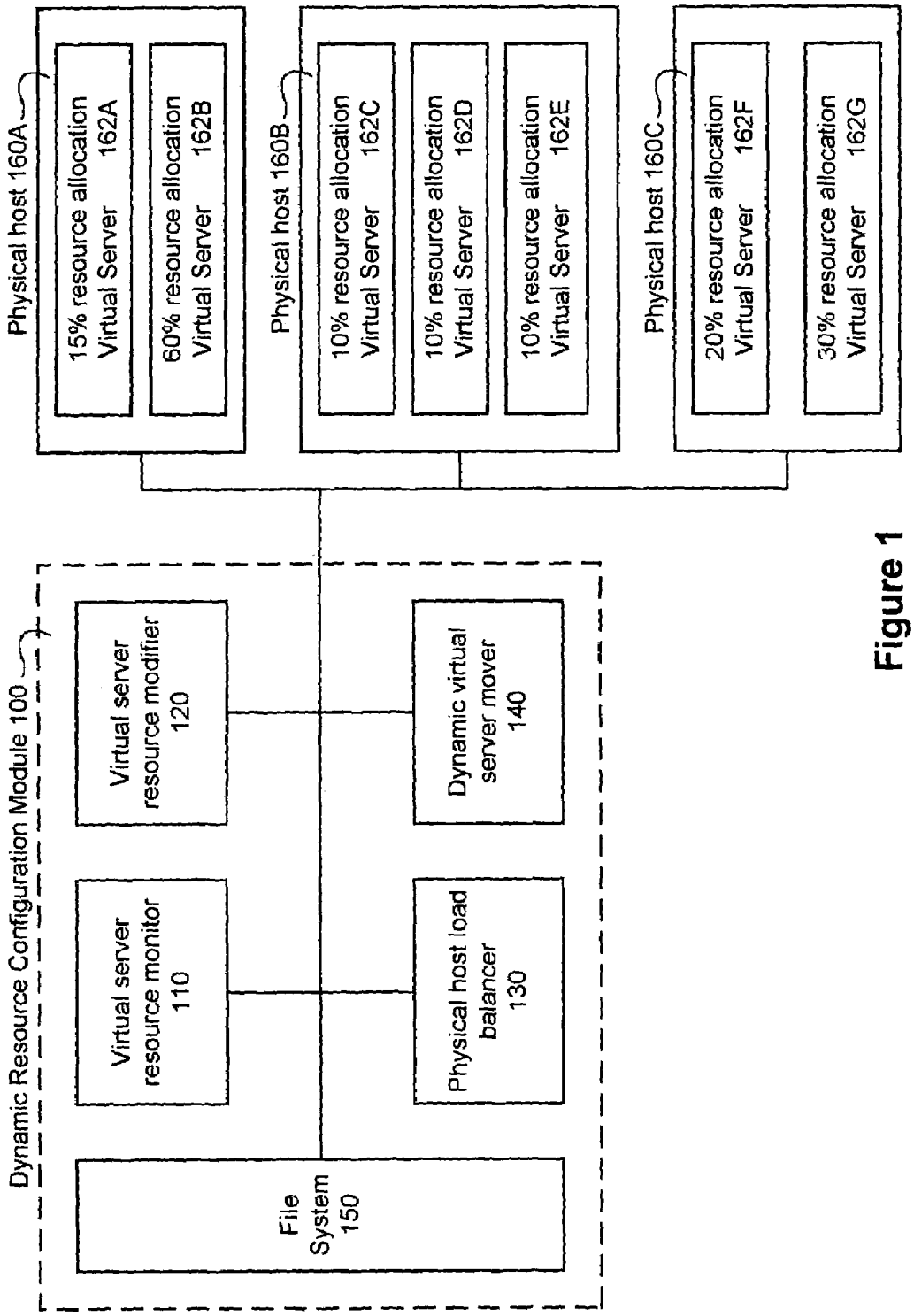

Figure 1

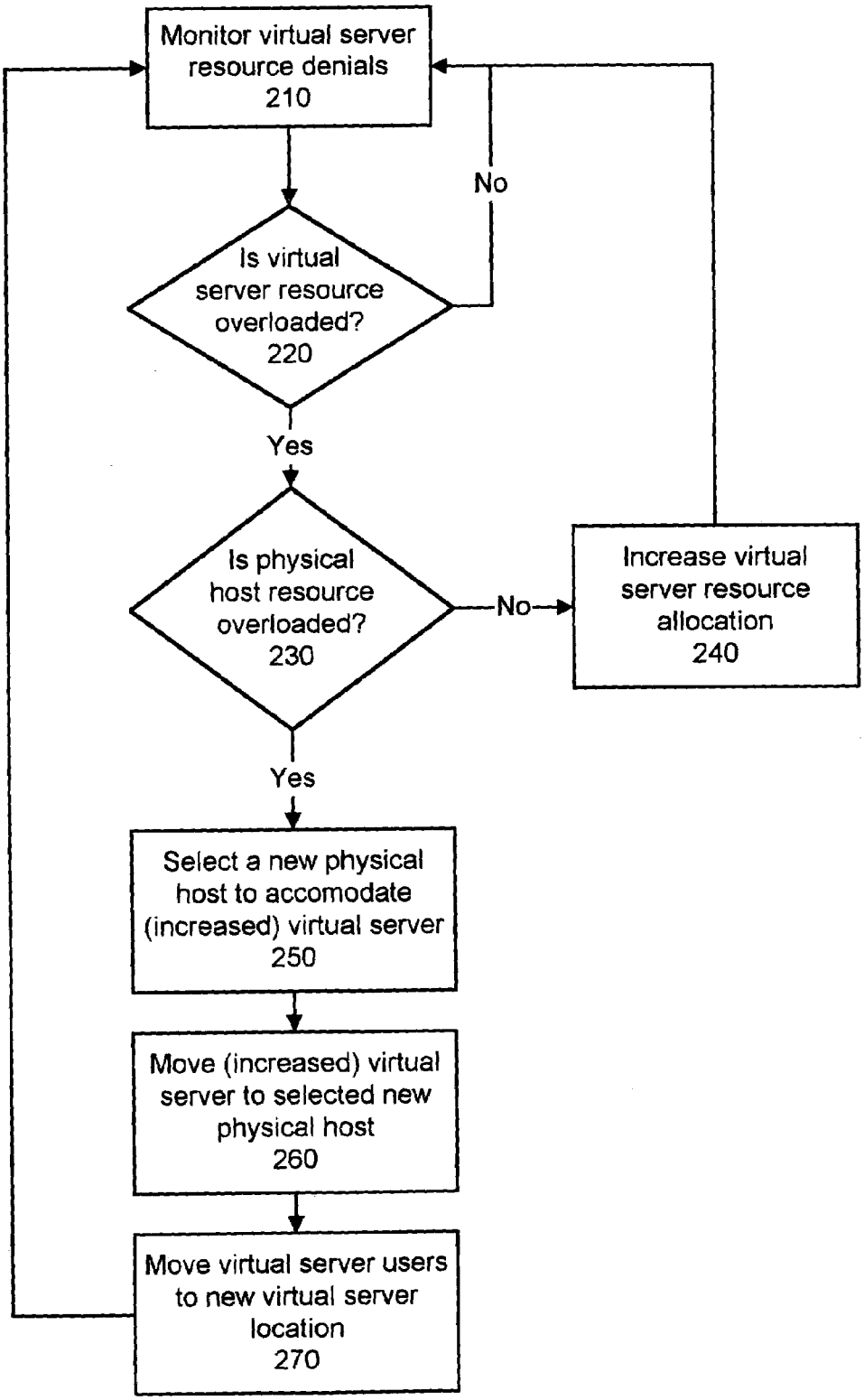

Figure 2A

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