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**De Angelo**

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(54) **SYSTEM AND METHOD FOR CREATING AND MANIPULATING INFORMATION CONTAINERS WITH DYNAMIC REGISTERS**

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§ 371 (c)(1),  
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**PCT Pub. Date:** **Aug. 5, 1999**

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(51) **Int. Cl.**  
**G06F 17/30** (2006.01)

(52) **U.S. Cl.** ..... **707/100; 707/203**

(58) **Field of Classification Search** ..... **707/6, 707/103, 10**

See application file for complete search history.

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*Primary Examiner*—Frantz Coby

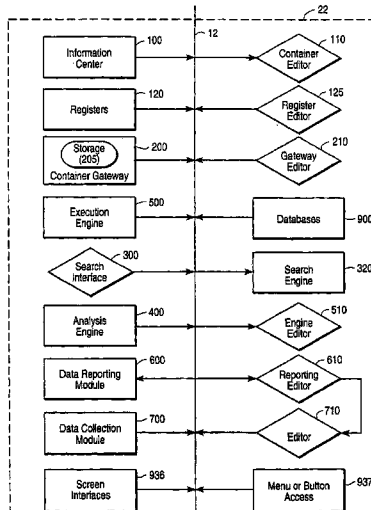
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(57) **ABSTRACT**

An apparatus for transmitting, receiving and manipulating information on a computer system, the apparatus including a plurality of containers, each container being a logically defined data enclosure and comprising an information element, a plurality of registers, and a gateway. The plurality of registers, form part of the container, and include a first register for storing a unique container identification value; a second register having a representation designating time and governing interactions of the container with other containers, systems or processes according to utility of information in the information element relative to an external-to-the-apparatus event time; an active time register for identifying times at which the container will act upon other containers, processes, systems or gateways; a passive time register for identifying times at which the container can be acted upon by other containers, processes, systems or gateways; and a neutral time register for identifying times at which the container may interact with other containers, processes, systems or gateways. Additional registers designate space for container interactions.

**16 Claims, 30 Drawing Sheets**



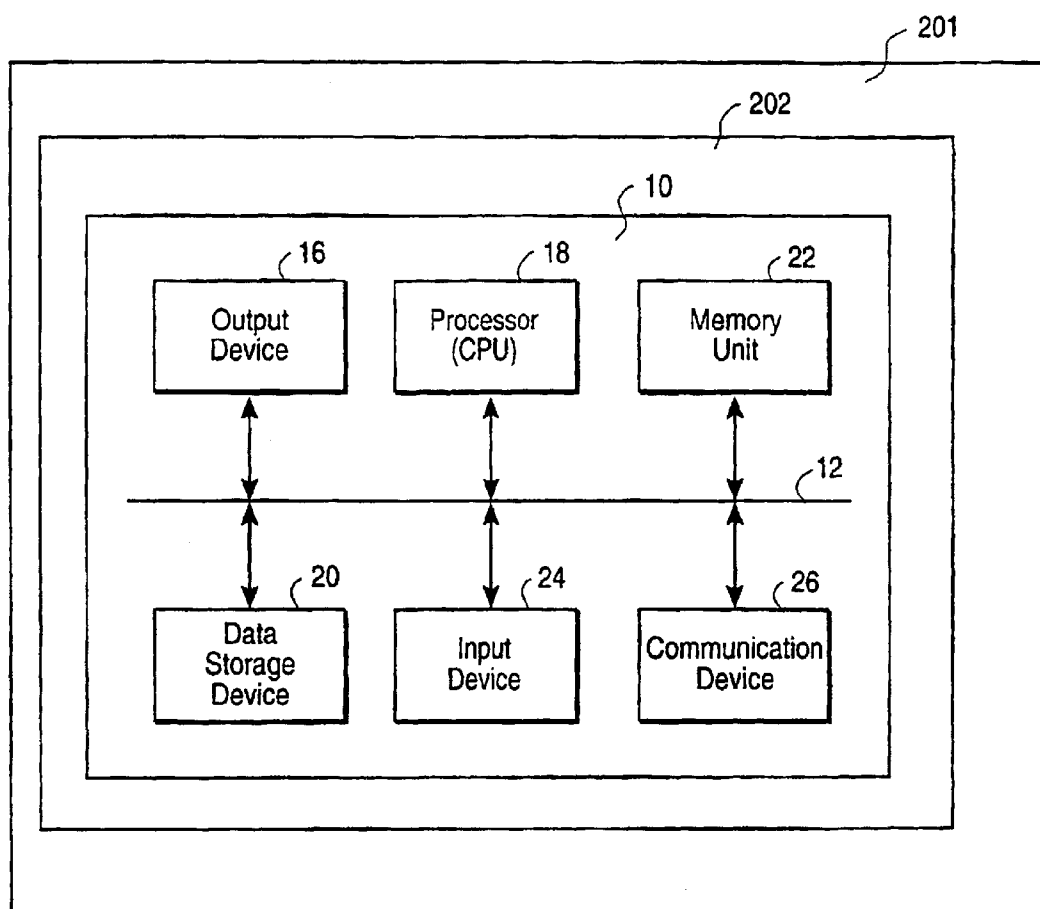


FIG. 1

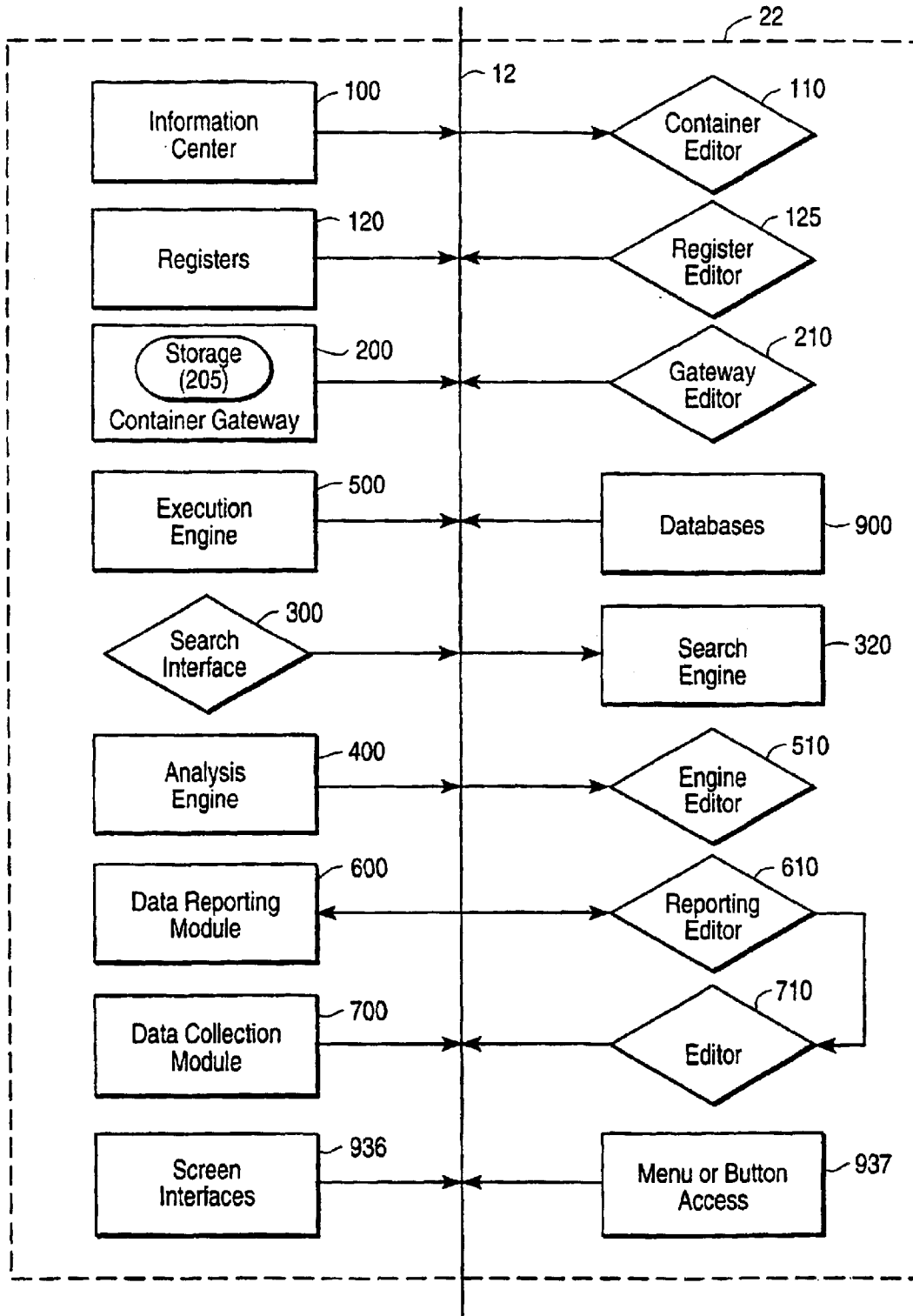


FIG. 2A

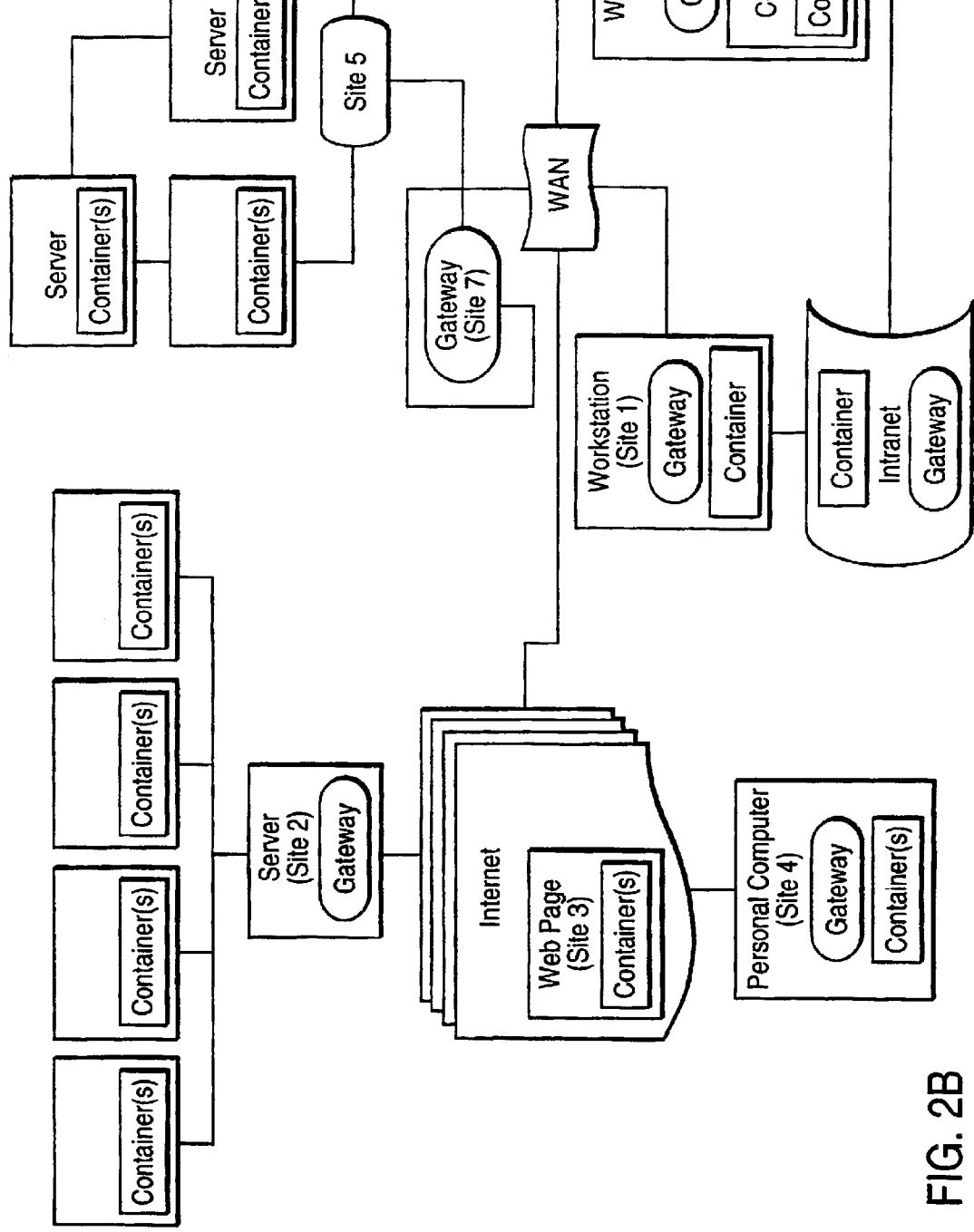


FIG. 2B

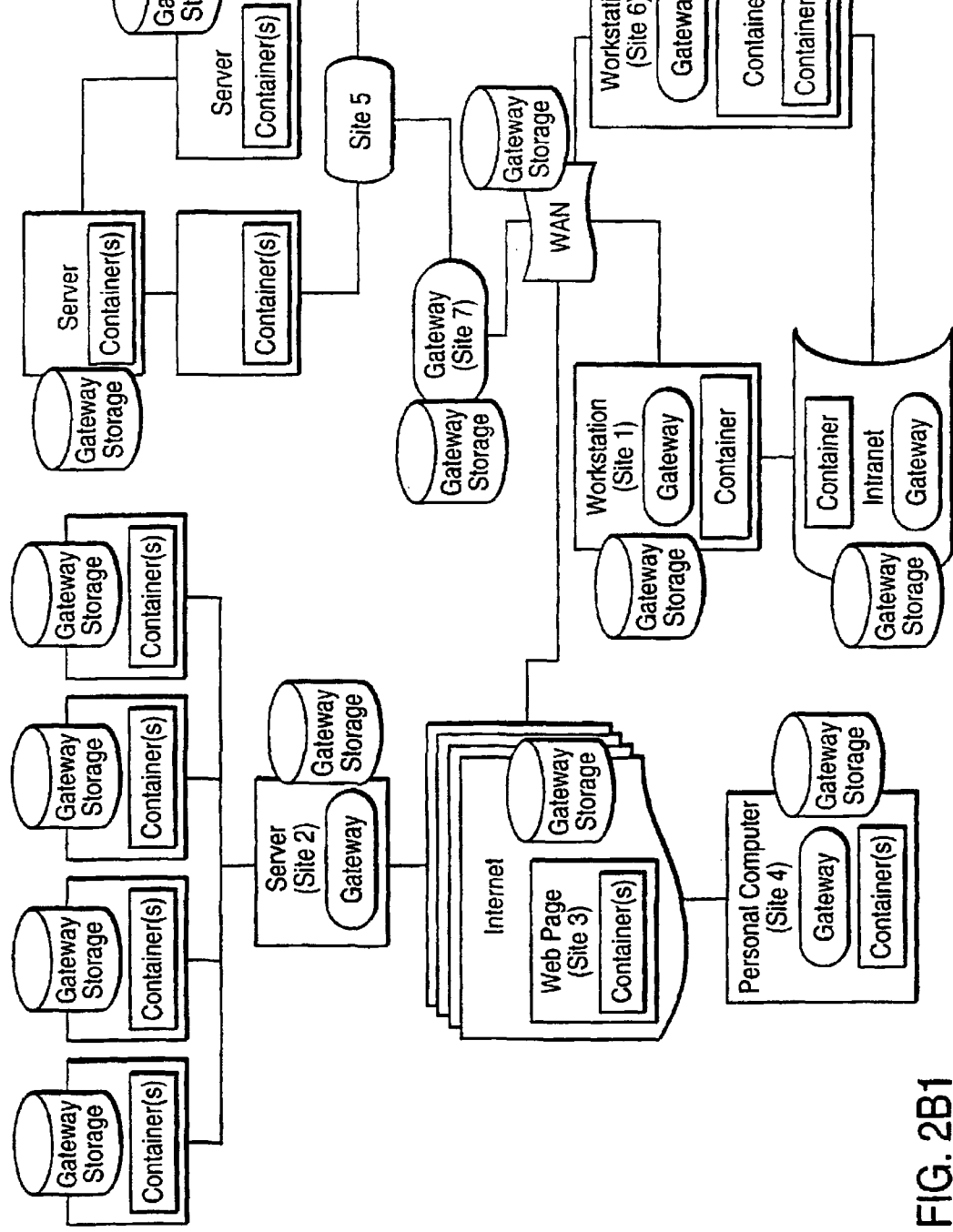


FIG. 2B1

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