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

(75) Inventor: **Michael De Angelo**, Santa Barbara, CA (US)

(73) Assignee: **Pattern Intelligence, Inc.**, Palm Springs, CA (US)

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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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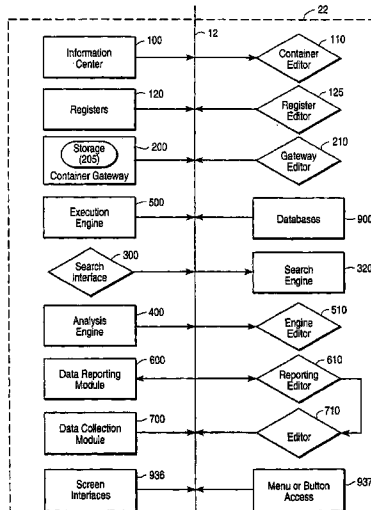WO   WO 98 02831   1/1998

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Primary Examiner—Frantz Coby
Assistant Examiner—CamLinh Nguyen
(74) *Attorney, Agent, or Firm*—Fish & Richardson P.C.

(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.
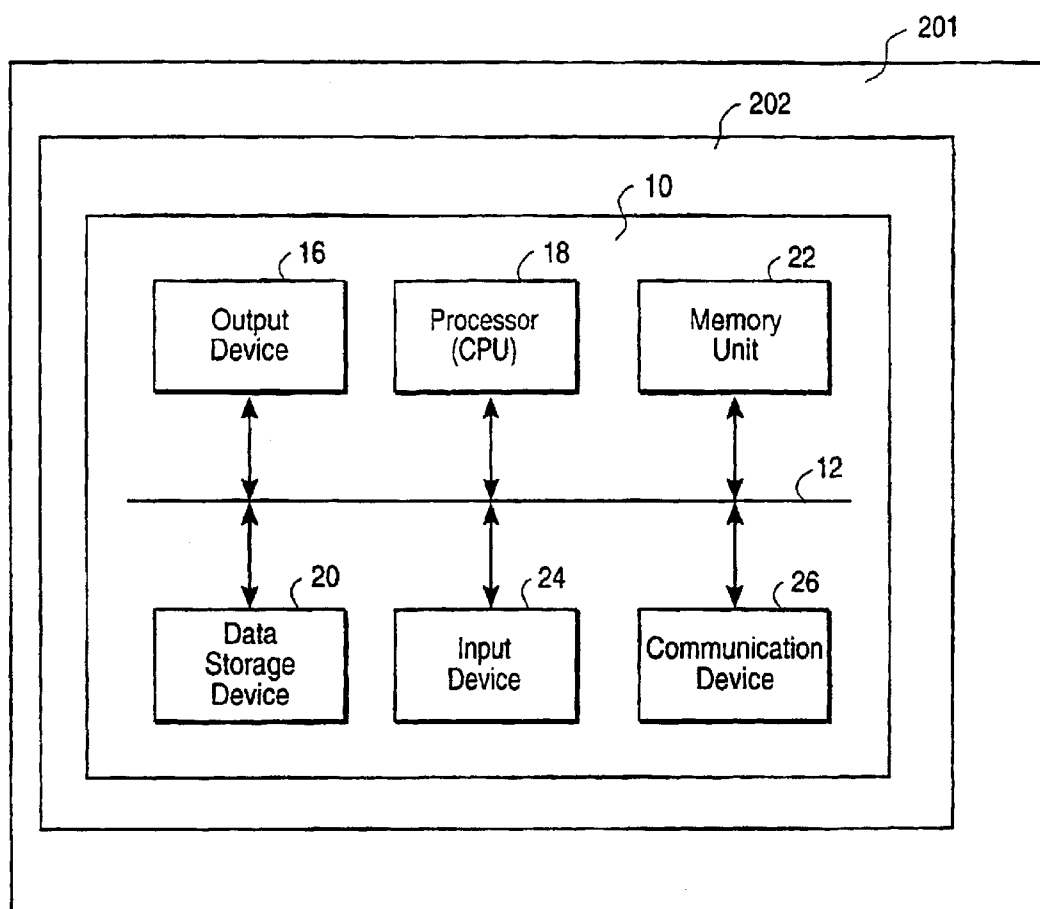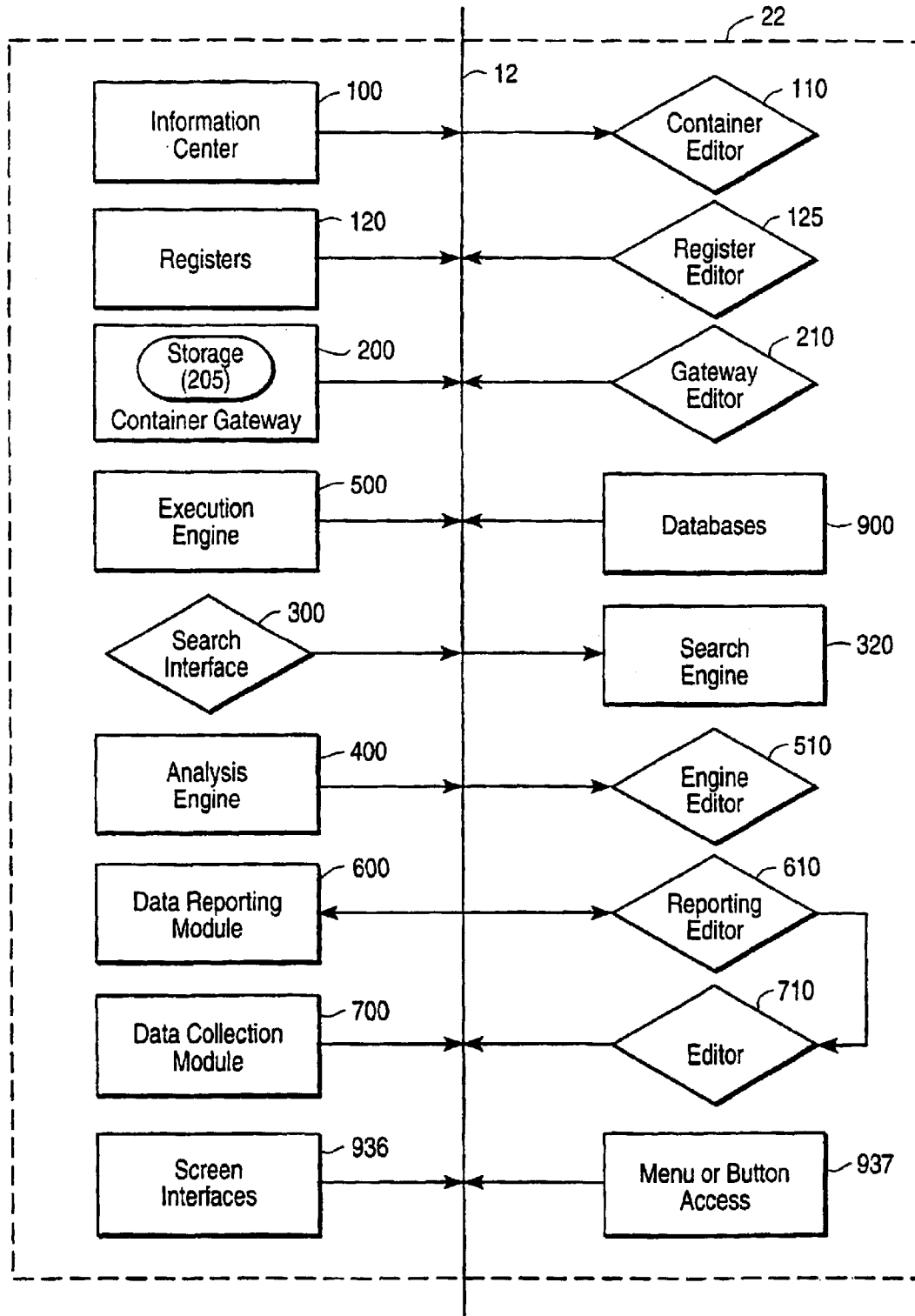
16 Claims, 30 Drawing Sheets

201

202

10

16	18	22
Output Device	Processor (CPU)	Memory Unit

12

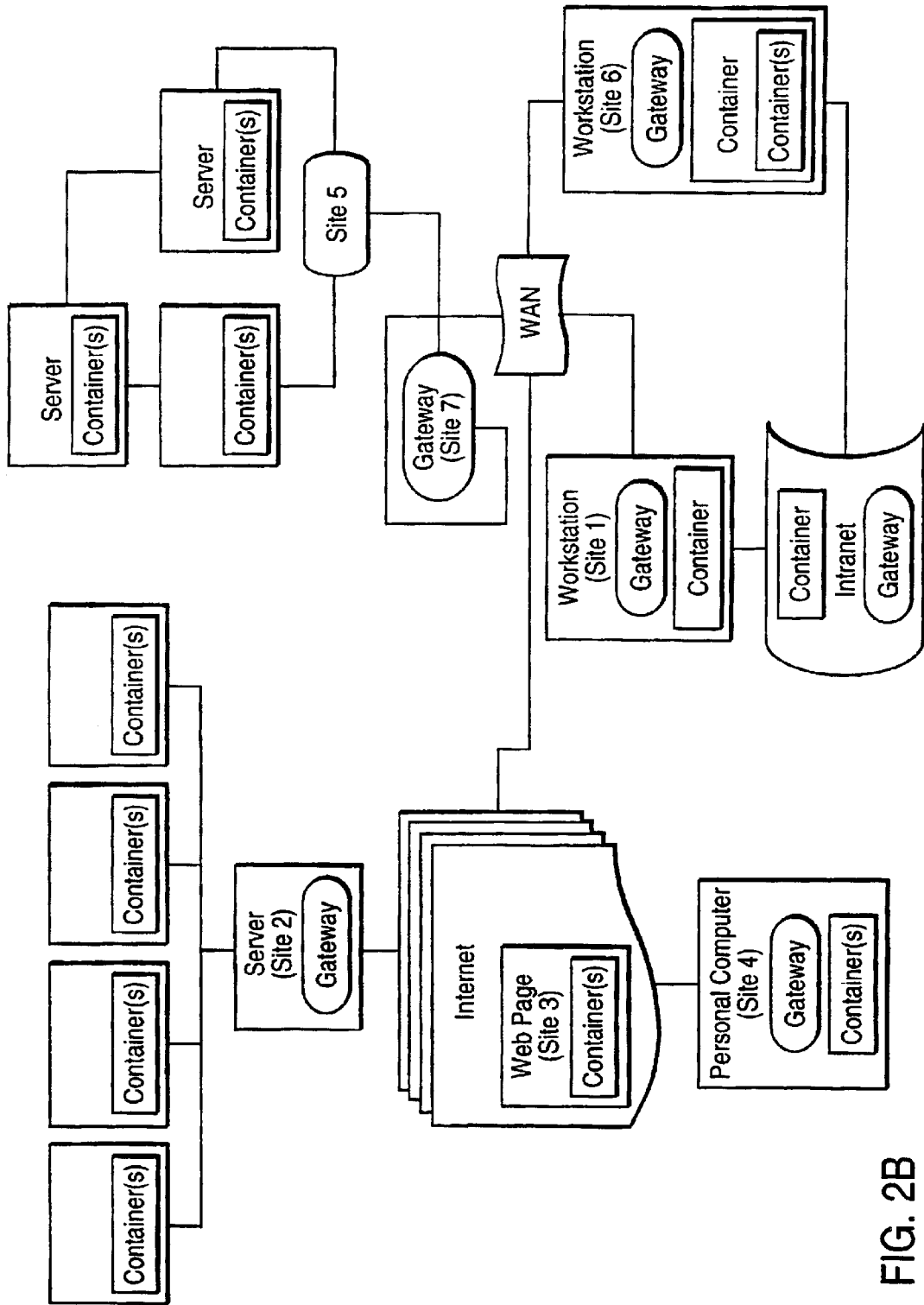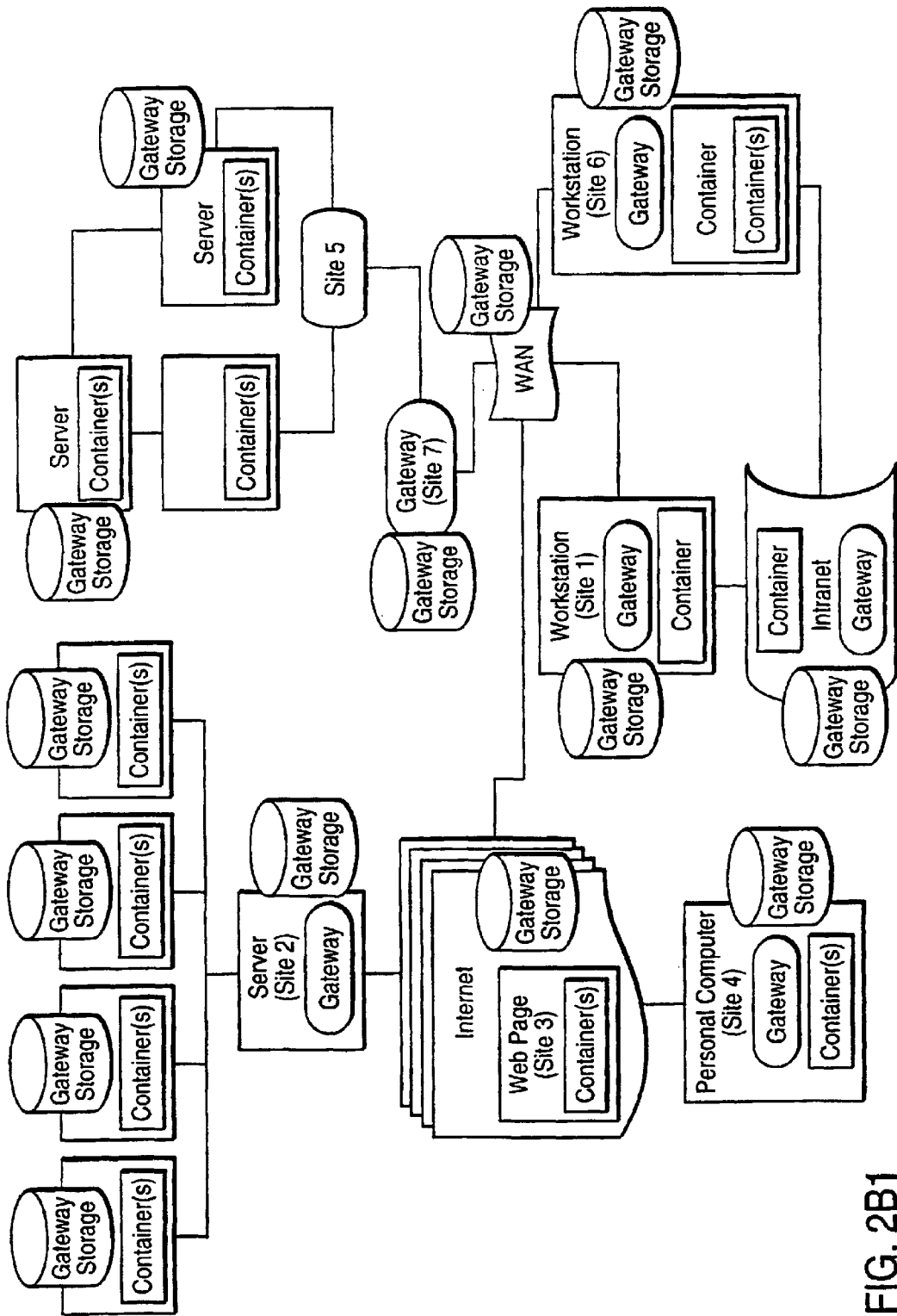| 20	24	26
Data Storage Device	Input Device	Communication Device

FIG. 1

FIG. 2A

FIG. 2B

FIG. 2B1

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