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(54) **DISTRIBUTED ENVIRONMENTAL CONTROL IN A WIRELESS SENSOR SYSTEM**

(52) **U.S. Cl. 340/870.11; 340/870.16; 340/539.26; 340/3.1; 700/275**

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(57) **ABSTRACT**

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A method for providing environmental monitoring and control includes providing a network of wireless nodes, the wireless nodes includes an array of sensor nodes and an array of actuator nodes, each wireless node including a wireless transceiver, a processor and one of a sensor device or an actuator device. The method further includes sending a message from a first wireless node to a second wireless node through wireless communication; and processing the message at the second wireless node. In operation, the message may include sensor data or a control command operative to control the sensor device or the actuator device in the second wireless node. In one embodiment, a sensor node processes sensor data and generate a control command as a message to be transmitted to an actuator node. In another embodiment, the actuator node transmits a message to a sensor node to request sensor data or control commands.

(21) **Appl. No.: 10/692,476**

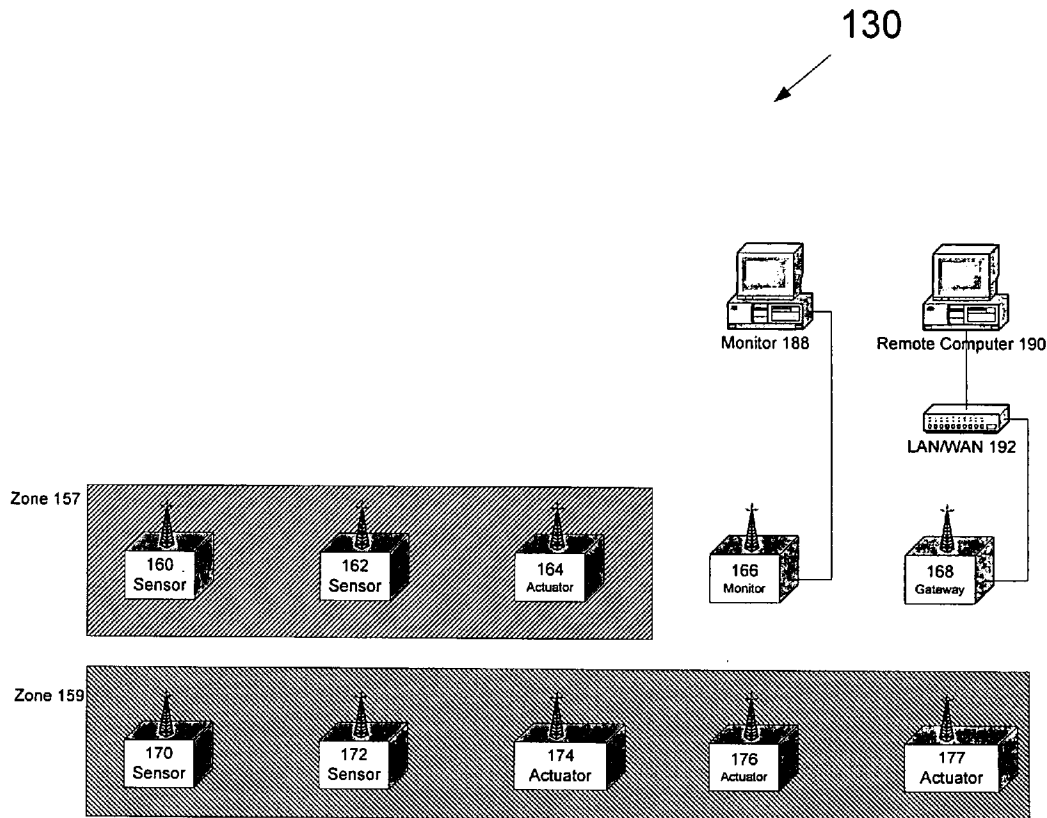
(22) **Filed: Oct. 24, 2003**

Related U.S. Application Data

(60) **Provisional application No. 60/421,963, filed on Oct. 28, 2002.**

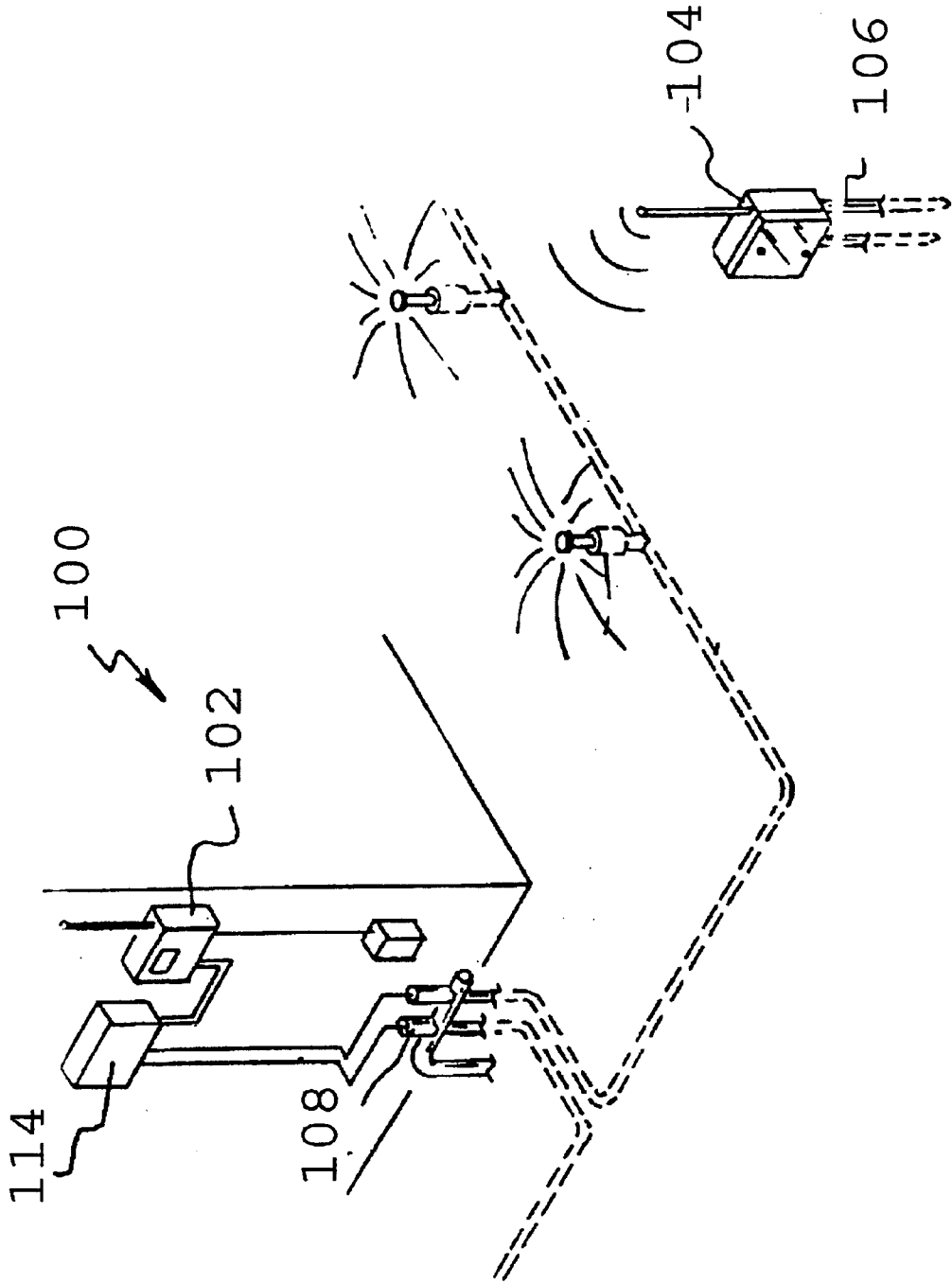
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Emerson Exhibit 1005

FIGURE 1 - PRIOR ART



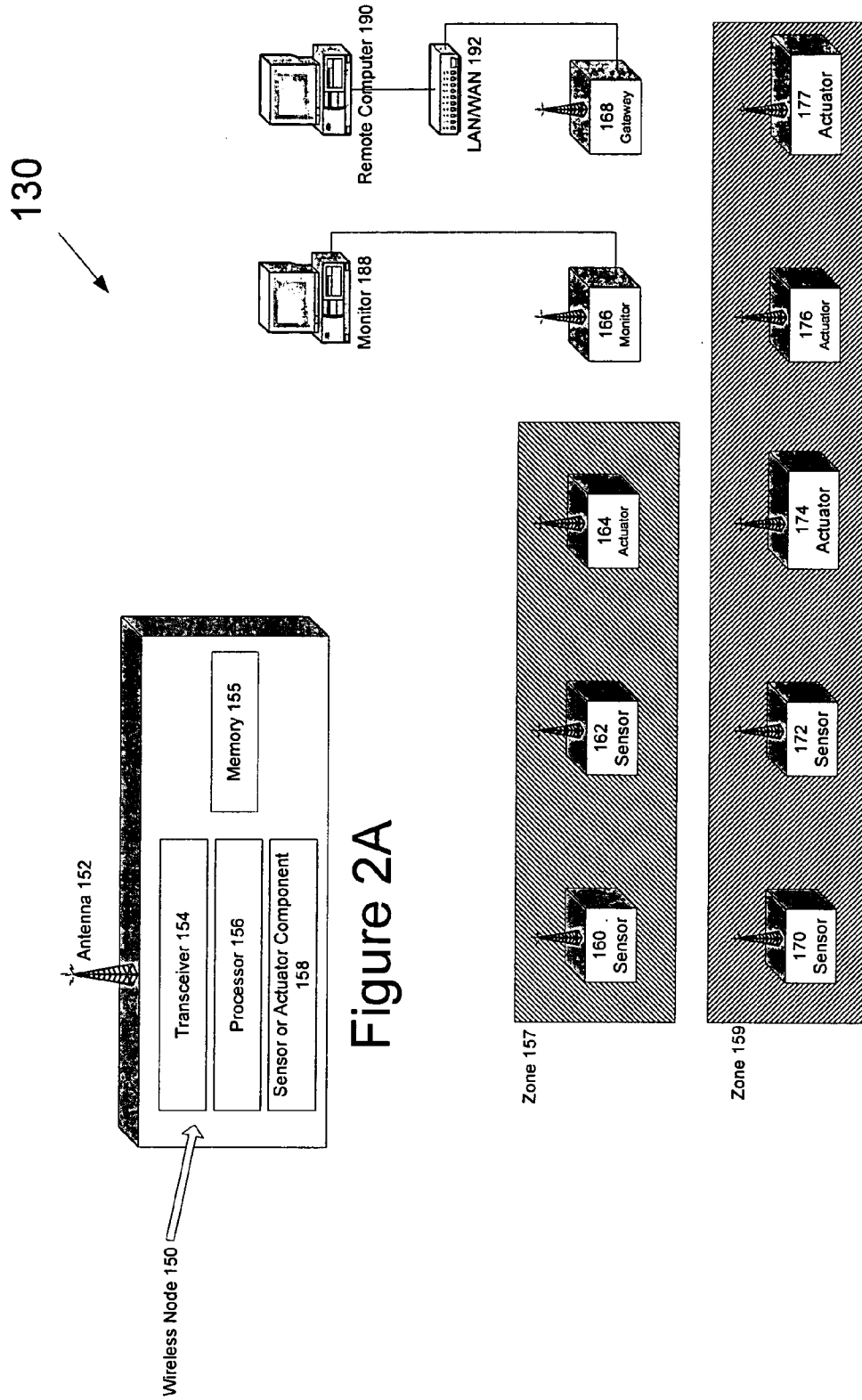


Figure 2

Figure 3 - Message Routing

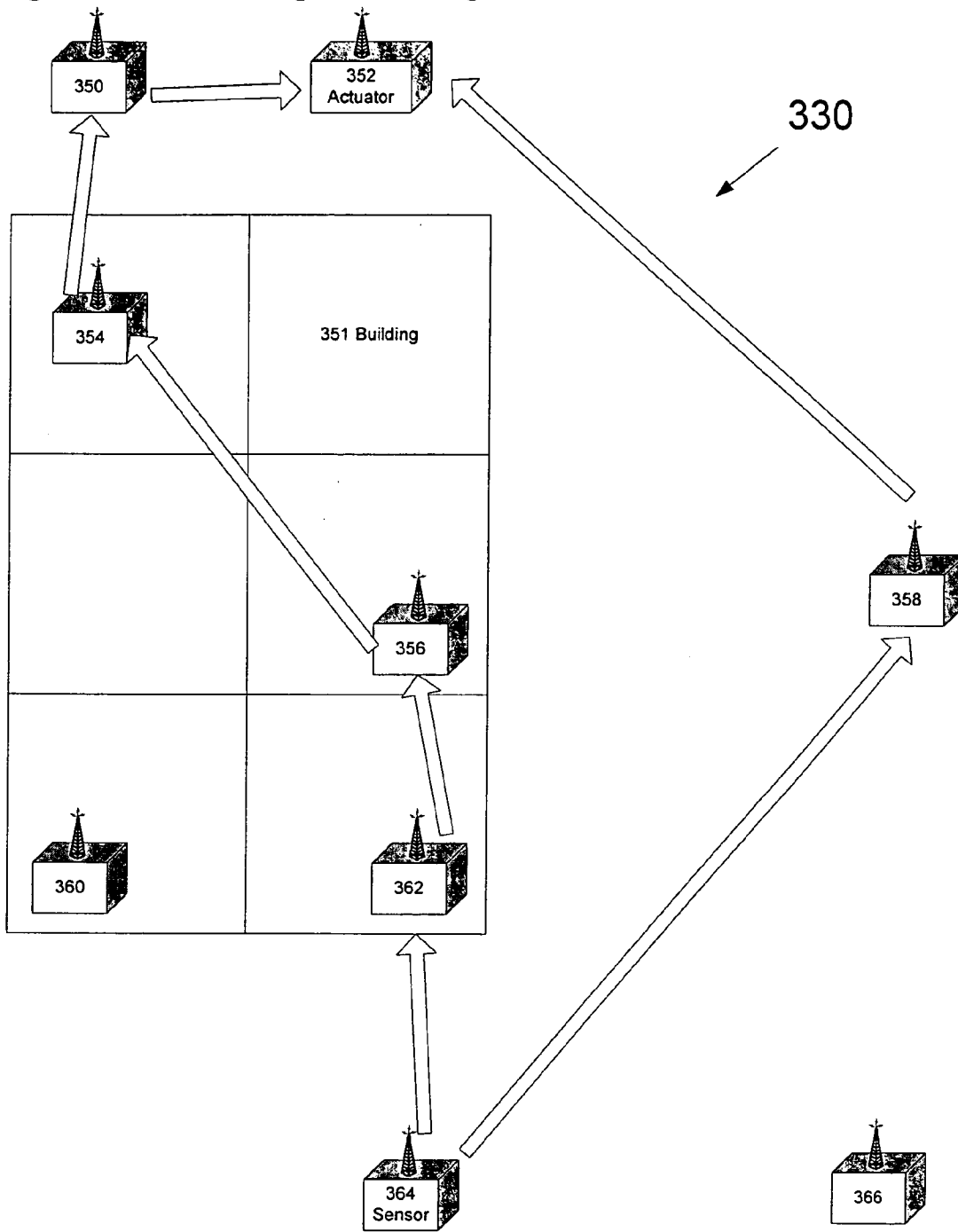
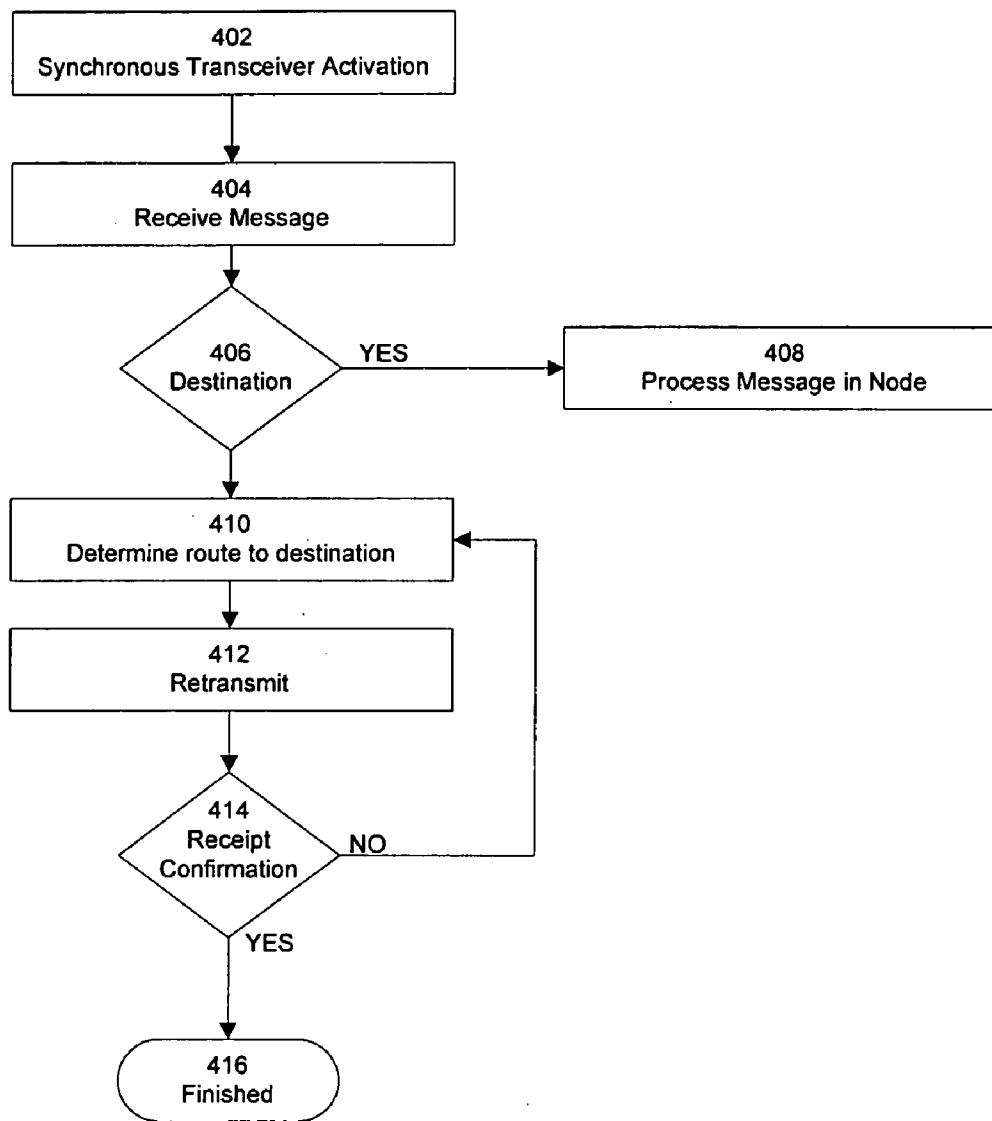


Figure 4 - Transceiver Routing



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