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Lee

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(45) **Date of Patent: Sep. 1, 2009**

(54) **REMOTE-CONTROLLED MOTION APPARATUS WITH SENSING TERRESTRIAL MAGNETISM AND REMOTE CONTROL APPARATUS THEREFOR**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(30) **Foreign Application Priority Data**

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(51) **Int. Cl.**
G06F 19/00 (2006.01)

(52) **U.S. Cl.** **702/150**; 702/188

(58) **Field of Classification Search** 701/26; 702/150, 188

See application file for complete search history.

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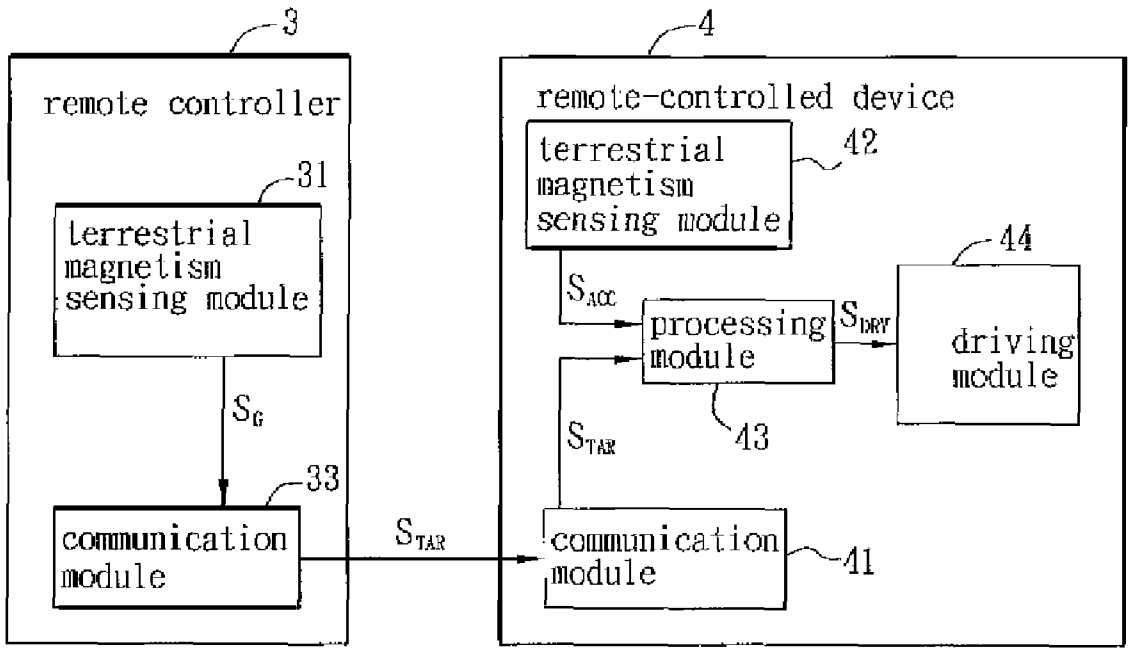
(57) **ABSTRACT**

A remote-controlled motion apparatus is controlled by a remote control apparatus. The remote control apparatus transmits a target motion signal by radio. The remote-controlled motion apparatus includes a communication module, a terrestrial magnetism sensing module, a processing module and a driving module. The communication module receives the target motion signal from the remote control apparatus. The terrestrial magnetism sensing module senses a terrestrial magnetism of the remote-controlled motion apparatus to output a terrestrial magnetism sensing signal. The processing module is coupled with the terrestrial magnetism sensing module and the communication module, and processes the terrestrial magnetism sensing signal and the target motion signal to output a driving control signal. The driving module is coupled with the processing module to receive the driving control signal, and adjusts the driving of the remote-controlled motion apparatus according to the driving control signal.

15 Claims, 5 Drawing Sheets



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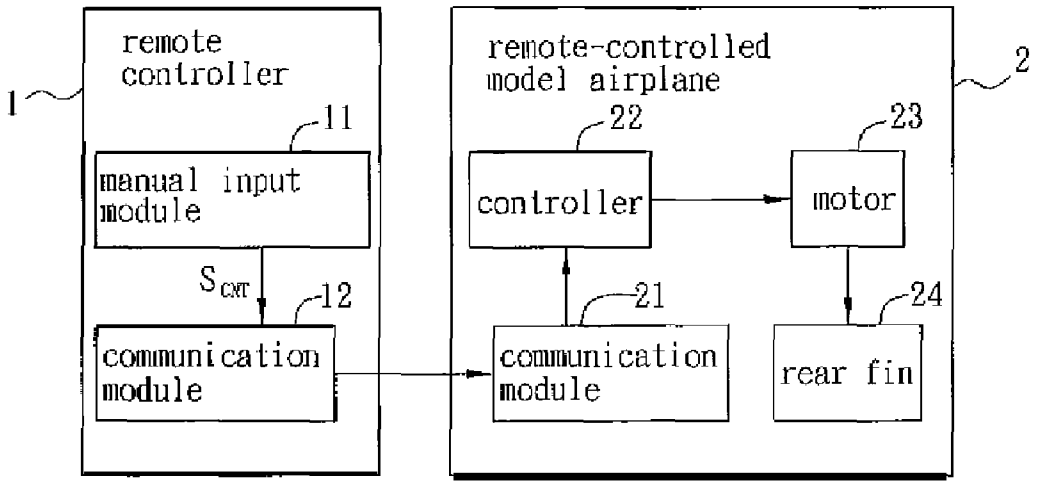

FIG. 1(PRIOR ART)

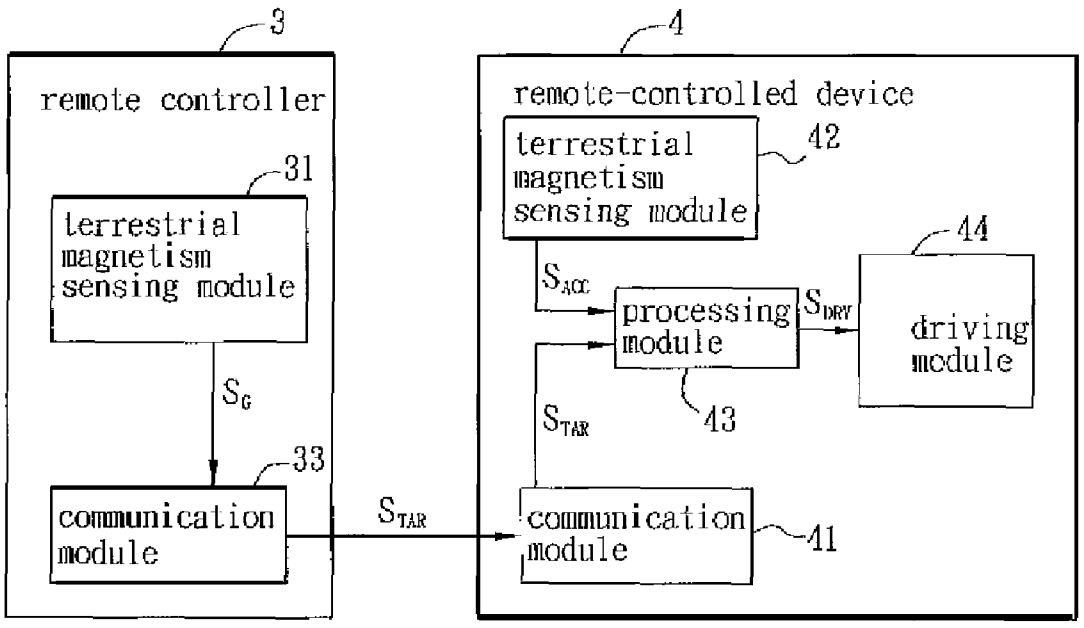

FIG. 2

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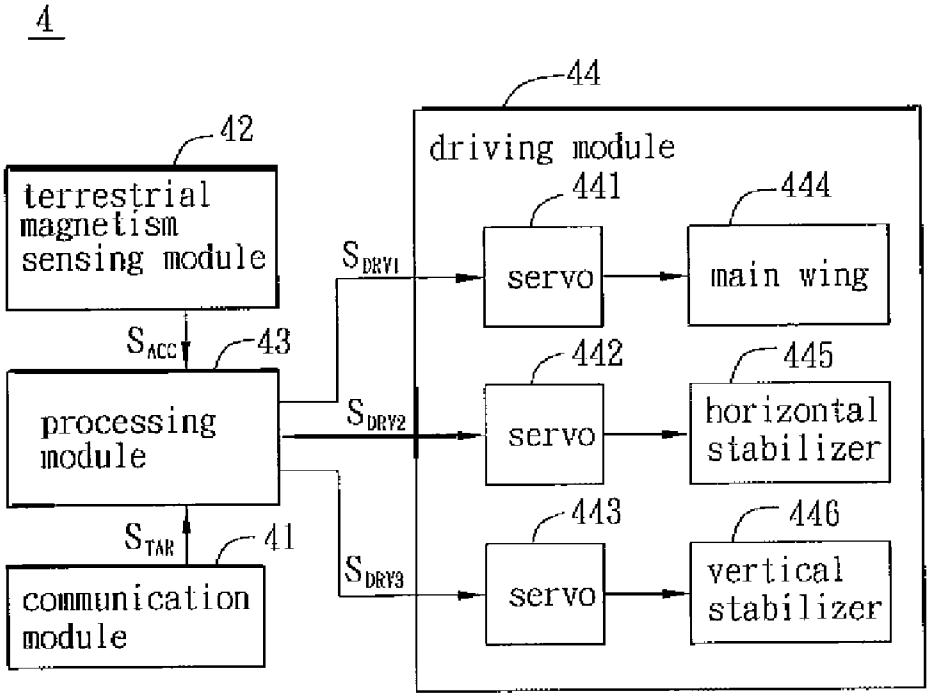

FIG. 3

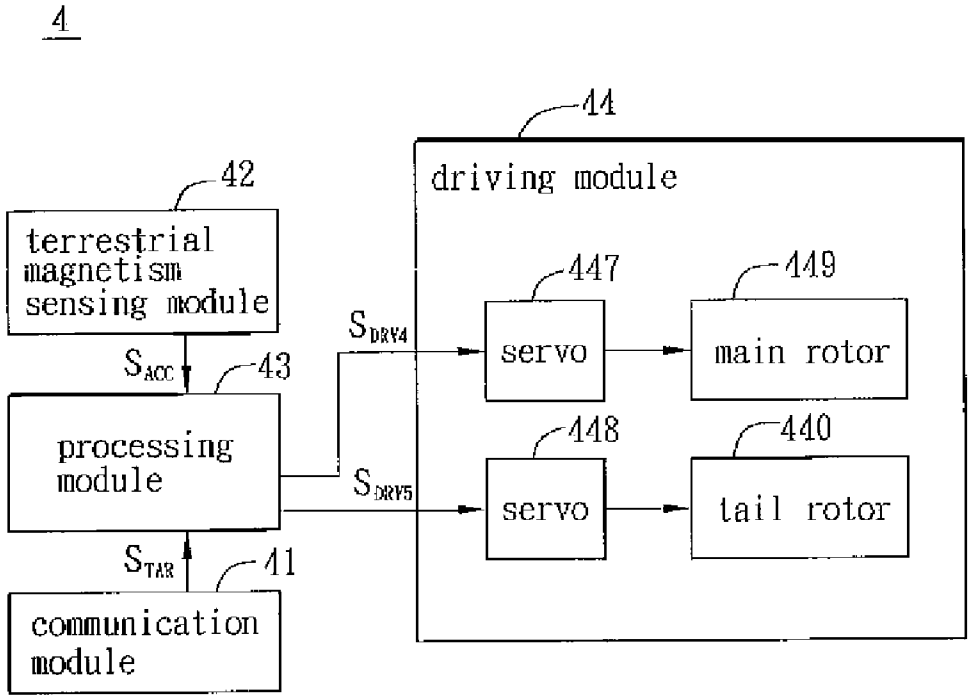

FIG. 4

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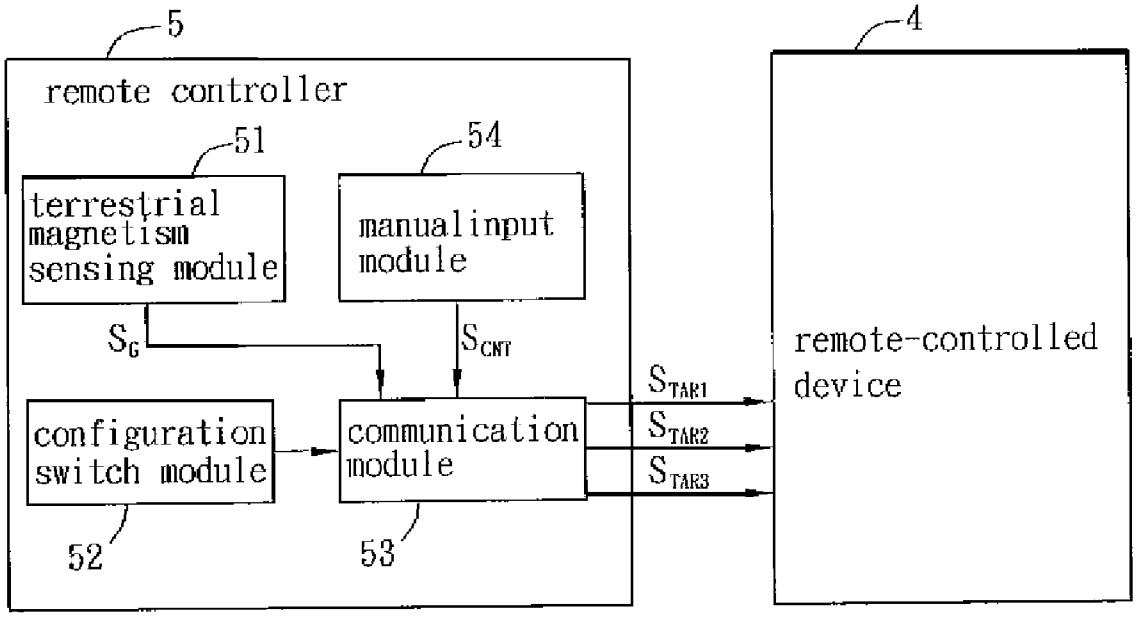

FIG. 5

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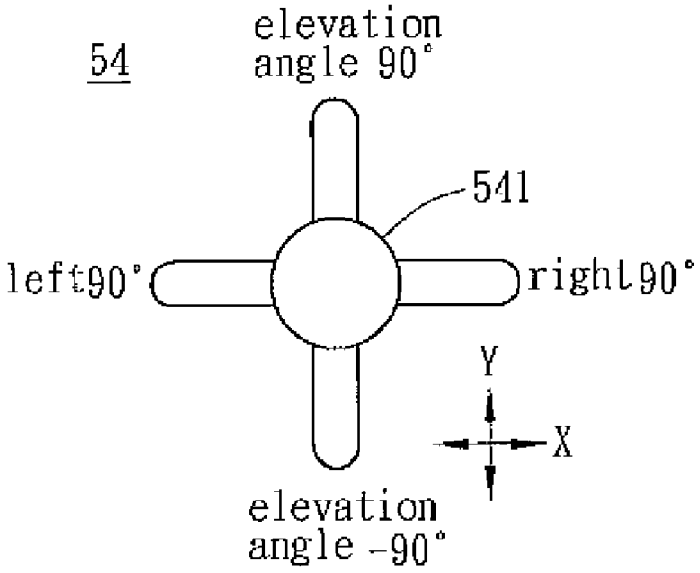

FIG. 6

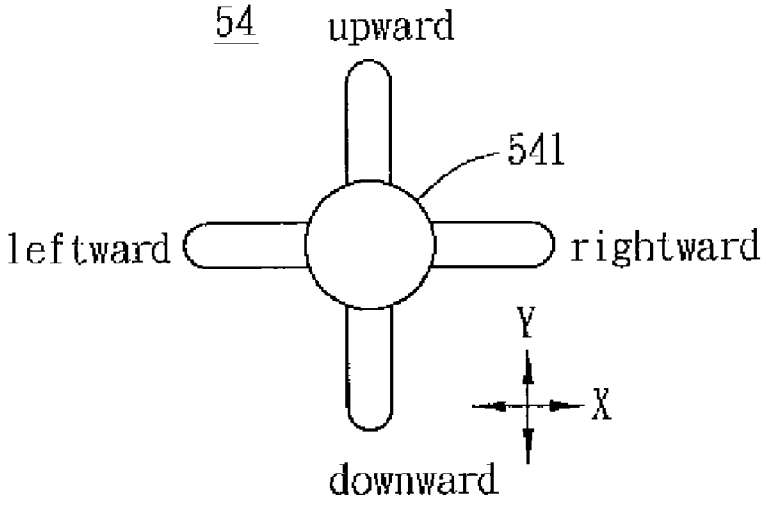

FIG. 7

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