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Lee

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(54) **REMOTE-CONTROLLED MOTION APPARATUS WITH ACCELERATION SELF-SENSE AND REMOTE CONTROL APPARATUS THEREFOR**

(76) Inventor: **Yu-Tuan Lee**, Taipei (TW)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 987 days.

This patent is subject to a terminal disclaimer.

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(51) **Int. Cl.**
G05B 11/01 (2006.01)
H04L 17/02 (2006.01)
A63H 29/00 (2006.01)
B64C 13/20 (2006.01)
G09G 5/00 (2006.01)
G06F 3/033 (2006.01)

(52) **U.S. Cl.** **340/12.22**; 341/176; 446/429; 244/190; 345/156; 345/157; 345/158

(58) **Field of Classification Search** 341/176; 345/156-158; 340/825.72
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,033,694 A * 7/1991 Sato 244/78.1
6,072,467 A * 6/2000 Walker 345/157

6,315,667 B1 *	11/2001	Steinhart	.....	463/39
6,751,529 B1 *	6/2004	Fouche	.....	701/3
6,980,589 B1 *	12/2005	Babb et al.	.....	375/222
7,219,861 B1 *	5/2007	Barr	.....	244/190
7,650,699 B2 *	1/2010	Yamamoto	.....	33/334
7,885,732 B2 *	2/2011	Troy et al.	.....	701/2
2005/0200325 A1 *	9/2005	Kim et al.	.....	318/568.12
2005/0243061 A1 *	11/2005	Liberty et al.	.....	345/158
2006/0092133 A1 *	5/2006	Touma et al.	.....	345/158
2007/0049374 A1 *	3/2007	Ikeda et al.	.....	463/30
2007/0050597 A1 *	3/2007	Ikeda	.....	712/1
2007/0060391 A1 *	3/2007	Ikeda et al.	.....	463/46

OTHER PUBLICATIONS

Murph, Darren, Willmote+RC car=authentic Excite Truck, Dec. 2006, Retrieved from <http://www.engadget.com/2006/12/21/wiimote-rc-car-authentic-excite-truck>.*

* cited by examiner

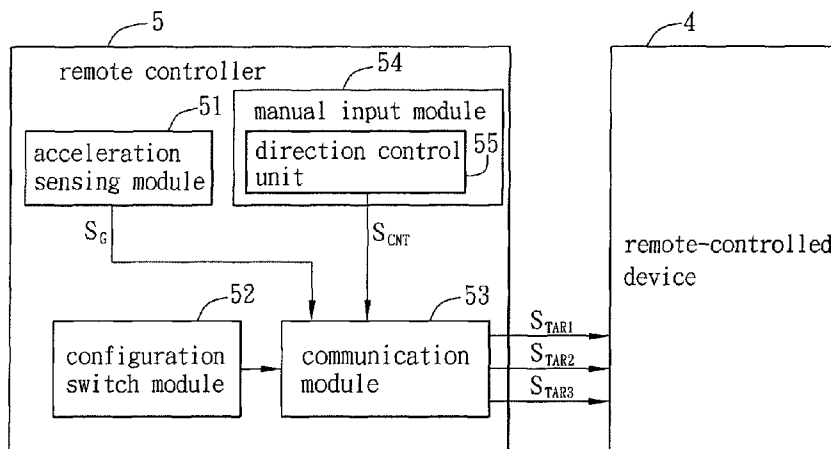
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(57) **ABSTRACT**

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, an acceleration sensing module, a processing module and a driving module. The communication module receives the target motion signal from the remote control apparatus. The acceleration sensing module senses an acceleration of the remote-controlled motion apparatus to output an acceleration sensing signal. The processing module is coupled with the acceleration sensing module and the communication module, and processes the acceleration 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.

12 Claims, 5 Drawing Sheets



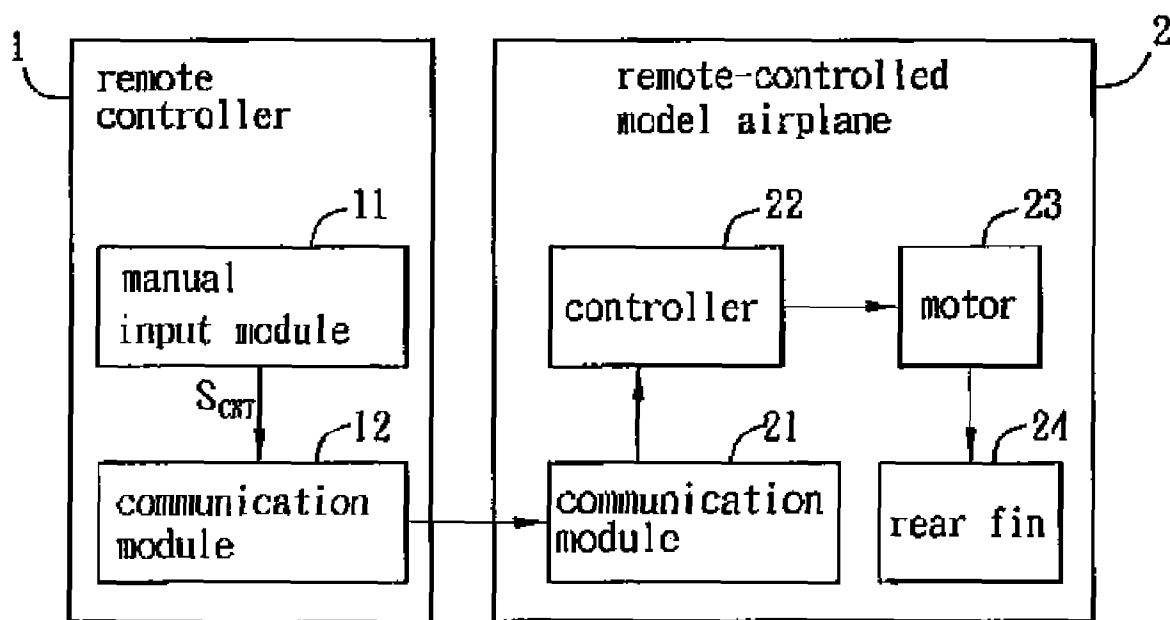


FIG. 1(PRIOR ART)

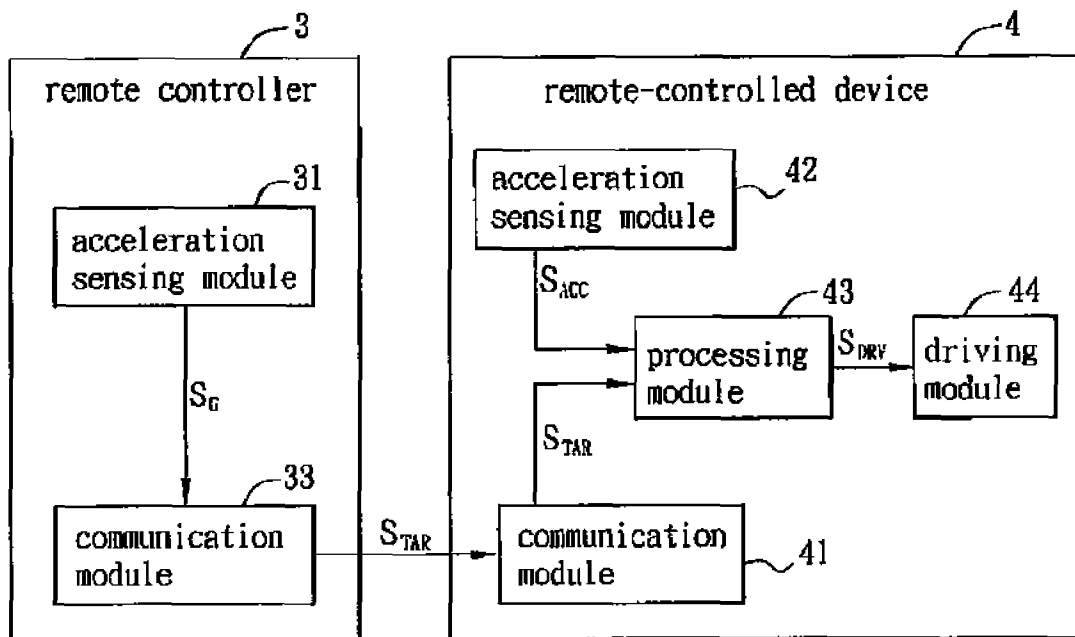


FIG. 2

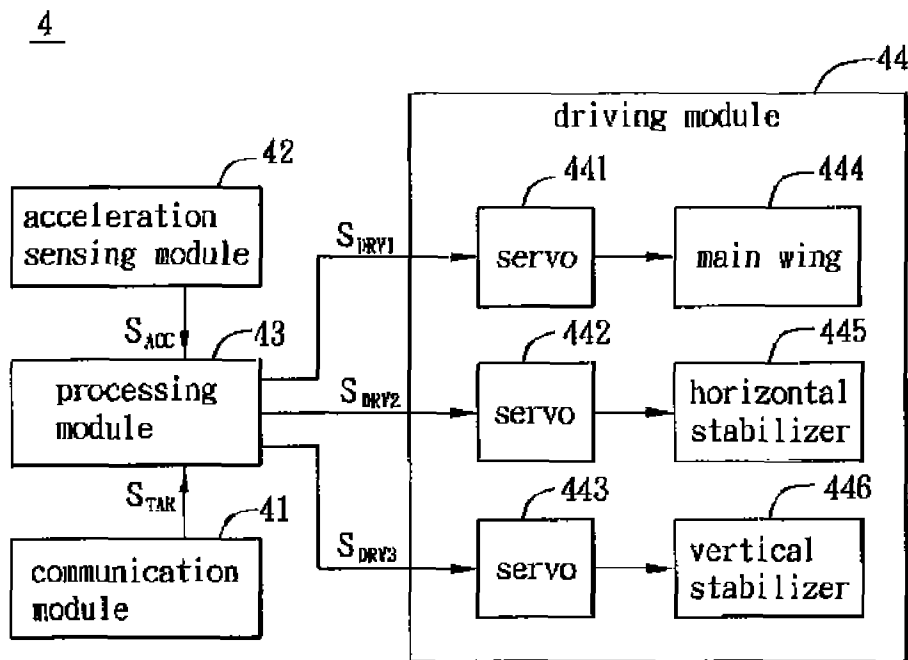


FIG. 3

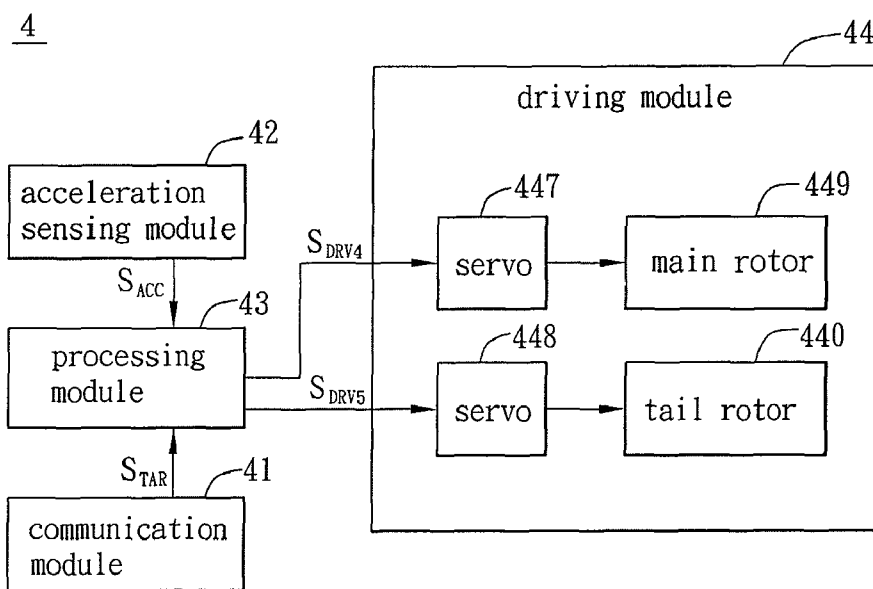


FIG. 4

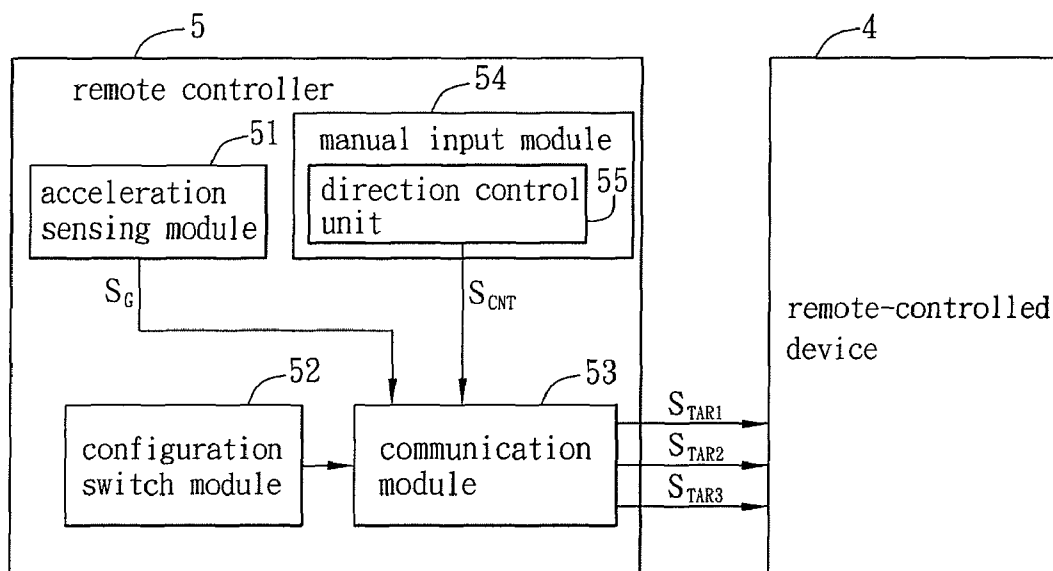


FIG. 5

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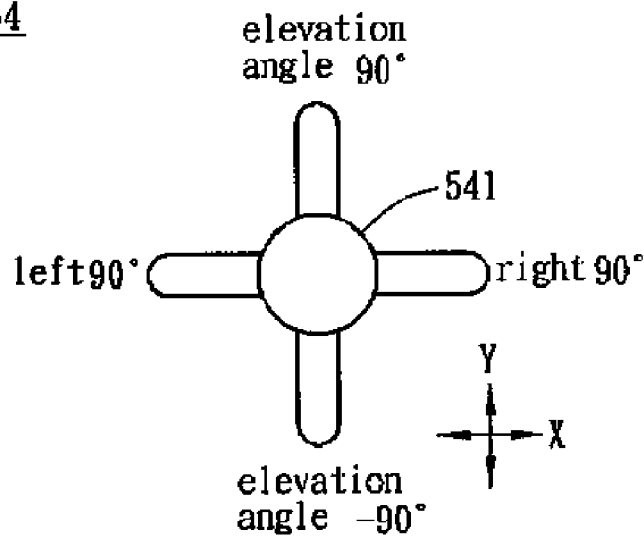


FIG. 6

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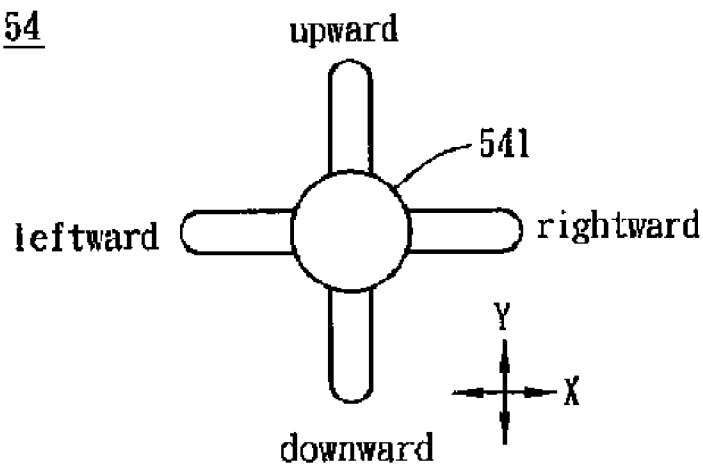


FIG. 7

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