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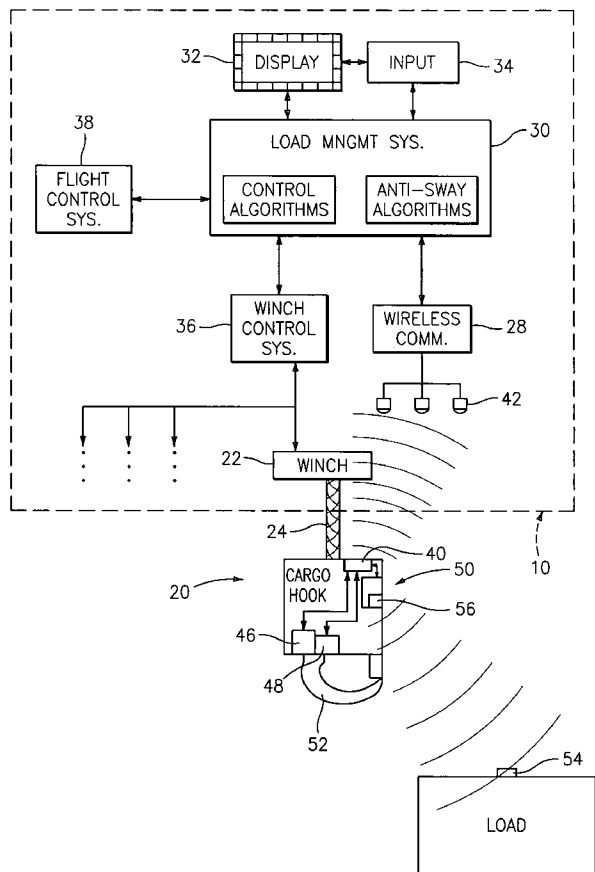
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(54) Title: RADIO FREQUENCY EMITTING HOOK SYSTEM FOR A ROTARY-WING AIRCRAFT EXTERNAL LOAD HANDLING



(57) Abstract: An aircraft load management system that determines the position of an aircraft cargo hook for display to an aircrew. The cargo hook positional information may alternatively or additionally be communicated directly to a flight control system and a winch control system to automate and coordinate flight control inputs with winch operation to actively position the cargo hook. Data transfer from the cargo through a data link system also provides the load management system with exact position of the cargo load connection points even prior to attachment of the cargo hook to the load. The load management system also includes anti-sway algorithms for active load stability inputs to the flight control system and to alter flight control laws and automatically compensate for CG. excursions.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B64D 1/12 (2008.01)

USPC - 244/137.4

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - B64D 1/12, G01G 19/00, H04B 10/00, B66C 13/12, G06F 7/04 (2008.01)

USPC - 244/137.4, 364/567, 398/115, 212/284, 340/10.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent, IP.com, Google Patents

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0026349 A1 (COLGATE et al) 12 February 2004 (12.02.2004), entire document	1, 5-9, 14-23
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Y		2-4, 10-13, 24
Y	US 3,032,365 A (CAMPBELL) 01 May 1962 (01.05.1962) entire document	2-4
Y	US 4,780,838 A (ADELSON) 25 October 1988 (25.10.1988) entire document	10-12, 24
Y	US 6,763,195 B1 (WILLEBRAND et al) 13 July 2004 (13.07.2004) entire document	3, 13
A	US 2004/0233041 A1 (BOHMAN et al) 25 November 2004 (25.11.2004) entire document	1-24

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