

Title (en)

RADIO FREQUENCY EMITTING HOOK SYSTEM FOR A ROTARY-WING AIRCRAFT EXTERNAL LOAD HANDLING

Title (de)

RADIOFREQUENZ-EMITTIERENDES HAKENSYSTEM FÜR EIN DREHFLÜGELFLUGZEUG MIT EXTERNER LASTBEARBEITUNG

Title (fr)

SYSTÈME DE CROCHET ÉMETTEUR RADIOFRÉQUENCE POUR MANIPULATION DE CHARGES EXTERNES PAR UN AÉRONEF À VOILURE TOURNANTE

Publication

EP 1989107 A4 20121017 (EN)

Application

EP 07835688 A 20070131

Priority

- US 2007002723 W 20070131
- US 77628406 P 20060223

Abstract (en)

[origin: WO2008018912A2] 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.

IPC 8 full level

B64D 1/12 (2006.01); **B64D 1/22** (2006.01); **B66C 13/06** (2006.01); **B66C 13/46** (2006.01)

CPC (source: EP)

B64D 1/22 (2013.01); **B66C 13/063** (2013.01); **B66C 13/46** (2013.01); **G05D 1/0858** (2024.01)

Citation (search report)

- [E] EP 1904564 A2 20080402 - SIKORSKY AIRCRAFT CORP [US]
- [A] GB 2169572 A 19860716 - BOEING CO
- [A] US 2005103738 A1 20050519 - RECKTENWALD ALOIS [DE], et al
- [A] US 6189834 B1 20010220 - DIETZ PHILLIP [US], et al
- See references of WO 2008018912A2

Cited by

US2016048131A1; US9718547B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008018912 A2 20080214; **WO 2008018912 A3 20080710**; EP 1989107 A2 20081112; EP 1989107 A4 20121017

DOCDB simple family (application)

US 2007002723 W 20070131; EP 07835688 A 20070131