

Title (en)

ACTUATOR SYSTEM FOR AEROSPACE CONTROLS AND FUNCTIONS

Title (de)

STEMPELSYSTEM FÜR STEUERUNG UND FUNKTIONEN IN DER LUFT- UND RAUMFAHRT

Title (fr)

SYSTEME D'ACTIONNEMENT POUR FONCTIONS ET UNITES DE COMMANDE AEROSPATIALES

Publication

EP 1090232 A1 20010411 (EN)

Application

EP 99926635 A 19990617

Priority

- GB 9901926 W 19990617
- GB 9813660 A 19980624

Abstract (en)

[origin: WO9967537A1] The invention provides an actuator (12) having a piston (18) moveable within a cylinder (20), and a piston rod (22) extending from the piston and providing an actuator ram (14). The piston divides the cylinder into a cylindrical chamber (24) and an annular chamber (26), and a fluid direction control valve (34) controls the supply of fluid between these chambers and a fluid supply line (30) and a fluid return line (32). The actuator is arranged to have first and second modes of operation during extension of the piston rod, the actuator in the first mode having the fluid supply line in communication with the cylindrical chamber and the annular chamber in communication with the fluid return line and in the second mode having the fluid supply line in communication with the cylindrical chamber and the annular chamber connected directly or indirectly to the cylindrical chamber. The actuator system also includes means (36, 38; 102, 104, 106) for automatically switching the actuator from one mode to the other mode.

IPC 1-7

F15B 11/024

IPC 8 full level

B64C 13/40 (2006.01); **F15B 11/024** (2006.01)

CPC (source: EP)

F15B 11/024 (2013.01); **F15B 2211/30505** (2013.01); **F15B 2211/30525** (2013.01); **F15B 2211/3058** (2013.01); **F15B 2211/31511** (2013.01); **F15B 2211/31576** (2013.01); **F15B 2211/775** (2013.01)

Citation (search report)

See references of WO 9967537A1

Cited by

US10227951B2; US11067034B2

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 9967537 A1 19991229; AU 4381499 A 20000110; EP 1090232 A1 20010411; GB 9813660 D0 19980826; JP 2002511135 A 20020409

DOCDB simple family (application)

GB 9901926 W 19990617; AU 4381499 A 19990617; EP 99926635 A 19990617; GB 9813660 A 19980624; JP 55892099 A 19990617