

Title (en)

ADJUSTER DEVICE FOR AN AIRCRAFT COMBINATION OF AN ADJUSTER DEVICE AND AN ADJUSTER DEVICE FAULT RECOGNITION FUNCTION, FAULT -TOLERANT ADJUSTER SYSTEM AND METHOD FOR RECONFIGURING THE ADJUSTER SYSTEM

Title (de)

VERSTELLVORRICHTUNG EINES FLUGZEUGS, KOMBINATION EINER VERSTELLVORRICHTUNG UND EINER VERSTELLVORRICHTUNGS-FEHLERERKENNUNGSFUNKTION, FEHLERTOLERANTES STELLSYSTEM UND VERFAHREN ZUR REKONFIGURATION DES STELLSYSTEMS

Title (fr)

DISPOSITIF DE RÉGLAGE POUR AÉRONEF, COMBINAISON D'UN DISPOSITIF DE RÉGLAGE ET D'UNE FONCTION DE DÉTECTION DES ERREURS D'UN DISPOSITIF DE RÉGLAGE, SYSTÈME DE RÉGLAGE À TOLÉRANCE D'ERREURS ET PROCÉDÉ DE RECONFIGURATION DU SYSTÈME DE RÉGLAGE

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Application

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Abstract (en)

[origin: WO2010046111A2] Adjuster device (A11, A12, B11, B12, A21, A22, B21, B22) for coupling an adjuster flap (A1, A2; B1, B2) on an aircraft to an actuator (20), an adjuster mechanism (VK) for the kinematic coupling of the actuator (20) to the adjustment flap (A1, A2; B1, B2) and a gearbox (25), wherein the adjuster device (A11, A12, B11, B12, A21, A22, B21, B22) may be coupled to a control and monitoring device (5) for operation thereof, characterised in that the adjuster device comprises a first load sensor (S1; S11-a, S12-a, S21-a, S22-a), arranged at the input side (31) of the actuator (20) for recording the load occurring on the input side of the actuator (20) as a result of the operation of the adjustment flap (A1, A2; B1, B2), a second load sensor (S2; S11-b, S12-b, S21-b), arranged at the output side (32) of the actuator (20) for recording the load occurring on the output side (32) of the actuator (20) as a result of the operation of the adjustment flap (A1, A2; B1, B2), wherein the first load sensor (S1; S11-a, S12-a, S21-a, S22-a) and the second load sensor (S1; S11-b, S12-b, S21-b, S22-b) are functionally connected to an adjuster device fault recognition function for receiving the sensor values delivered by the load sensors, in order to attribute a fault condition to the adjuster device and a combination of an adjuster device and an adjuster device fault recognition function, a fault-tolerant adjuster system and a method for reconfiguring an adjuster system.

IPC 8 full level

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DOCDB simple family (application)

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