

Title (en)
Control for a miniature aircraft

Title (de)
Steuerung für einen Kleinflugkörper

Title (fr)
Commande pour un avion de taille réduite

Publication
EP 1970664 A2 20080917 (DE)

Application
EP 08004057 A 20080305

Priority
DE 102007012799 A 20070316

Abstract (en)
The control device for the production of torques around the longitudinal and transverse axis of a small missile (15) driven over a steering electronics by propellers, comprises wings (11, 12, 13, 14) having aerodynamic flight stabilization rudder-fin (16). The rudder fins are arranged in their number of revolutions over the steering electronics influenceable in their angle of deflection with propeller modules (M1) coupled to the rudder fins. The propeller modules supply the controllable propulsion for the small missile and are directly arranged at the wings. The control device for the production of torques around the longitudinal and transverse axis of a small missile (15) driven over a steering electronics by propellers, comprises wings (11, 12, 13, 14) having aerodynamic flight stabilization rudder-fin (16). The rudder fins are arranged in their number of revolutions over the steering electronics influenceable in their angle of deflection with propeller modules (M1) coupled to the rudder fins. The propeller modules supply the controllable propulsion for the small missile and are directly arranged at the wings. The propeller comprises electric motors fed by the main battery of the small missile. The propeller modules supporting the rudder fins are arranged at a tail or nose of the small missile forming control surfaces (22, 23).

Abstract (de)
Steuereinrichtung zur Erzeugung von Drehmomenten um die Längs- und Querachse eines über eine Lenkelektronik fernlenkbaren propellergetriebenen Kleinflugkörpers (15) mit der aerodynamischen Flugstabilisierung dienenden, angelenkte Ruderfinnen (16 bis 19) aufweisenden Flügeln (11 bis 14), denen in ihrer Drehzahl über die Lenkelektronik beeinflussbare in ihrer Winkelauslenkung mit den Ruderfinnen (16 bis 19) gekoppelte Propeller-Module (M1 bis M4) zugeordnet sind; (vgl. Figur 1)

IPC 8 full level
F42B 10/64 (2006.01)

CPC (source: EP)
F42B 10/64 (2013.01); **F42B 10/666** (2013.01)

Citation (applicant)
• DE 102004061977 A1 20060706 - LFK GMBH [DE]
• DE 10322421 A1 20041209 - ELECTROLUX HOME PROD CORP [BE]

Cited by
CN104699918A; CN113720216A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 1970664 A2 20080917; EP 1970664 A3 20100414; EP 1970664 B1 20111228; AT E539312 T1 20120115; DE 102007012799 B3 20080430

DOCDB simple family (application)
EP 08004057 A 20080305; AT 08004057 T 20080305; DE 102007012799 A 20070316