



TECHNOLOGY

Wing Pitch Angle Control Device

OVERVIEW

A wing using this invention is distinctly different from other wings that have been made in that it is completely self contained, solid state, and requires no actuators inside the fuselage. A torque plate allows it to be stowed and extended without the complication of mechanical linkages. Also, the use of low-cost actuator materials may bring down the price of such flight control devices. Currently, other all-moving fins use hydraulic or electromechanical actuators that occupy fuselage volume, are slow, and consume large amounts of power. This torque plate wing, developed by a researcher at the University of Maryland, College Park's Department of Aerospace Engineering, is lighter, less costly, faster, and smaller.

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Additional Information

INSTITUTION

University of Maryland, College Park

PATENT STATUS

U.S. Patent #5,440,193 issued for this technology

LICENSE STATUS

An exclusive or nonexclusive license is available for this technology

EXTERNAL RESOURCES

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