

ABSTRACT OF DISCLOSURE

STRUCTURE OF FOLDING FINS FOR MISSILES OR THE LIKES

A structure of folding fins for missiles or the likes is disclosed. The structure comprises a pair of upper fins pivotally mounted onto the surface of the missile body, and a slot being formed on the fins substantially perpendicular to the axial of the fins; a pair of lower fins pivotally mounted onto the surface of the missile body such that the lower fins are corresponding to the upper fins; wherein a slot is formed on the fins substantially perpendicular to the axial of the fins and is corresponding to the slot formed on the upper fins; and an actuation and locking mechanism positioned within the missile body including a top and bottom bevel gear, an actuator, a spur bevel gear, a driving shaft and universal joints. The structure allows the storage of 4 cruciform fins alongside the missile body wherein the said fins are swept back and stored flushed on the outside skin of the missile body prior to launch, and deployed automatically when in flight by means of slots on the said fins and an actuation and locking mechanism that swings the said fins from storage position and locks them in a cruciform 'X' configuration when fully deployed.

(Fig. 1 is suggested for publication)