

Title (en)

FIN-STABILIZED SUBCALIBRE MISSILE WITH A HIGH LENGTH-TO-DIAMETER RATIO

Publication

EP 0156948 B1 19890816 (DE)

Application

EP 84110429 A 19840901

Priority

DE 3339078 A 19831028

Abstract (en)

[origin: US4638738A] In a spin stabilized flight shell, a front body and a rear body are attached to each other at a first joint, and a pointed body is attached to the front body at a second joint. The materials of the front and rear bodies contain a high proportion of at least one metallic element having a density of at least 18 g/cm³. The rear body has higher ductility than the front body, which in turn is more brittle, so that it fragments easily. In one embodiment, a case can be used to protect the first joint and the front body prior to impact. The case is developed in a circumferential region as a form locking zone, for interaction with a drive cage. The front and rear bodies and the case 38 are connected at a contact zone, for example by brazing, and is of circular cylindrical shape with a diameter equal to that of the front and rear bodies. At the rear, the case is developed into a support for the stabilizing fin assembly, and is provided with an internal compartment for a tracer composition. In another embodiment, a drive cage with front and rear extension supports is provided, and the front and rear bodies are additionally connected to each other by a central pin.

IPC 1-7

F42B 13/16; **F42B 13/24**

IPC 8 full level

F42B 12/06 (2006.01); **F42B 14/06** (2006.01)

CPC (source: EP US)

F42B 12/06 (2013.01 - EP US); **F42B 14/061** (2013.01 - EP US)

Cited by

US11320246B2; EP0238818A1; US4753172A

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

US 4638738 A 19870127; DE 3479437 D1 19890921; EP 0156948 A2 19851009; EP 0156948 A3 19870701; EP 0156948 B1 19890816; ES 536568 A0 19850716; ES 8506402 A1 19850716

DOCDB simple family (application)

US 66618184 A 19841029; DE 3479437 T 19840901; EP 84110429 A 19840901; ES 536568 A 19841005