

Title (en)

Method for controlling the lateral dispersion of projectiles stabilised by means of gyroscopic effect

Title (de)

Verfahren zum Kontrollieren der seitlichen Streuung von kreiselstabilisierten Geschossen

Title (fr)

Procédé pour le contrôle de la dispersion latérale des munitions stabilisées par effet gyroscopique

Publication

**EP 0884554 A1 19981216 (FR)**

Application

**EP 98401348 A 19980605**

Priority

FR 9707352 A 19970613

Abstract (en)

The lateral divergence control procedure involves modulating the acceleration of the horizontal divergence of a projectile due to the gyroscopic effect by varying the centre of its aerodynamic thrust. This is achieved by equipping the rear section (3) of the projectile with retractable fins (4) to modify the pressure distribution on the projectile at any given instant during its trajectory. The centre of thrust is moved towards the rear of the projectile to apply the required divergence projection. The fins are deployed radially at a predetermined angle in relation to the projectile's lengthwise axis so as not to counteract its roll speed. In certain cases the fins can be deployed by the effect of centrifugal forces.

IPC 1-7

**F42B 10/14**

IPC 8 full level

**F42B 10/14** (2006.01)

CPC (source: EP)

**F42B 10/14** (2013.01)

Citation (search report)

- [X] WO 8100908 A1 19810402 - ANDERSSON K, et al
- [X] US 5398887 A 19950321 - WASSOM STEVEN R [US], et al
- [A] DE 2160324 A1 19730607 - MESSERSCHMITT BOELKOW BLOHM

Cited by

FR2916268A1; EP2921812A1

Designated contracting state (EPC)

BE DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0884554 A1 19981216; EP 0884554 B1 20030416**; DE 69813381 D1 20030522; DE 69813381 T2 20040304; FR 2764689 A1 19981218; FR 2764689 B1 19990827

DOCDB simple family (application)

**EP 98401348 A 19980605**; DE 69813381 T 19980605; FR 9707352 A 19970613