

Title (en)

Equilibrator device for a gun, especially a big calibre gun with a long barrel.

Title (de)

Unbalance-Ausgleichsvorrichtung für eine Waffe, insbesondere eine grosskalibrige Waffe mit langem Rohr.

Title (fr)

Équilibrateur pour une arme à feu, notamment une arme à feu de gros calibre équipée d'un long tube de canon.

Publication

EP 0493762 B1 19951102 (DE)

Application

EP 91121939 A 19911220

Priority

DE 4100102 A 19910104

Abstract (en)

[origin: EP0493762A2] An equilibrator device for a gun, especially a large-calibre gun with a long barrel. The gun possesses a part (1) which is pivotable in elevation and contains the gun barrel and which is mounted via trunnions (8) in a fixed frame (6), for example a tank turret, the centre of gravity (7) of the pivotable part (1) being located outside the axis of rotation of the trunnions (8). A torque counteracting the unbalance moment is generated in that the pivotable part (1) of the gun is connected via a flexible pull element (2) to the piston rod of a pneumatic cylinder (3) which is arranged on the fixed frame and the interior of which is connected to a pressure accumulator (4). The flexible pull element (2) is guided via a curved segment (5) of predetermined curved form, connected to the pivotable part (1) of the gun and defining the effective force lever arm (r), for the purpose of adapting the counteracting torque to the unbalance moment. <IMAGE>

IPC 1-7

F41A 27/30

IPC 8 full level

F41A 27/30 (2006.01)

CPC (source: EP US)

F41A 27/30 (2013.01 - EP US)

Cited by

EP0687887A1; FR2721393A1; US5614690A; US9714806B2; WO2014197249A1

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0493762 A2 19920708; EP 0493762 A3 19930317; EP 0493762 B1 19951102; DE 4100102 A1 19920709; DE 59106823 D1 19951207; US 5196642 A 19930323

DOCDB simple family (application)

EP 91121939 A 19911220; DE 4100102 A 19910104; DE 59106823 T 19911220; US 81598492 A 19920102