

Title (en)
ELEVATION BEARING FOR A TURRET-MOUNTED BIG-CALIBRE GUN

Publication
EP 0387676 A3 19910731 (DE)

Application
EP 90104321 A 19900307

Priority
DE 3908346 A 19890315

Abstract (en)
[origin: US5048392A] An elevating bearing for a large-caliber weapon accommodated in the turret of a tank, with a slant-ring bearing around the tube. The tube is mounted in a bearing ring that rotates around the axis of the tube and is itself mounted on another bearing ring and rotates around an axis at an angle to the axis of the tube. The second bearing ring rotates in the turret around another axis at an angle to the first axis. The angle between the first and the second axes of rotation equals the angle between the first axis of rotation and the axis of the tube. Both bearing rings can be driven around their axes of rotation. The slant-ring bearing is a subassembly inside the turret and the flange that secures the second bearing ring is secured stationary to the turret. The flange that the tube is mounted on and that secures the first bearing ring is secured non-rotating to the turret. At least one mechanism that rotates the bearing rings at the same time and to the same extent but in opposite directions is also secured non-rotating to the turret.

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F41A 27/10

IPC 8 full level
F41A 27/08 (2006.01); **F41A 27/10** (2006.01)

CPC (source: EP US)
F41A 27/08 (2013.01 - EP US); **F41A 27/10** (2013.01 - EP US)

Citation (search report)
• [A] EP 0176776 A1 19860409 - RHEINMETALL GMBH [DE]
• [AD] DE 2037819 B2 19740307
• [A] DE 3213172 A1 19831013 - BBC BROWN BOVERI & CIE [DE]
• [A] US 2712271 A 19550705 - WABNITZ RICHARD E

Cited by
EP3569967A1

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DE FR GB IT SE

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