

Title (en)
LIFTING GUN MOUNT FOR BATTLE TANKS

Publication
EP 0185871 B1 19880420 (DE)

Application
EP 85113164 A 19851017

Priority
DE 3440041 A 19841102

Abstract (en)
[origin: US4706543A] A piston cylinder unit of an upwardly swinging pinile mounting necessary for the adjustment of the muzzle height of the gun barrel of a battle tank contains a bracking mechanism which becomes effective at firing at each upwardly swingable setting of the gun barrel. In this way it is possible to utilize the swinging motion of a gun mount arm carrying a gun barrel for the recoil energy release of the gun barrel. The barrel recoil energy of the gun barrel, and of the masses recoiling at the same time with the gun barrel, is thereby energy dissipatingly absorbed at the barrel recoil, after completing the free-running switching operation d of a known barrel recoil brake mechanism within a barrel recoil path c, jointly formed out of the recoil ranges a and b, on the one hand, by way of the piston cylinder unit over the gun mount arm swung back by an angle alpha corresponding to the barrel recoil range a and on the other hand by way of a cradle fixed backwardly moving recoil brake mechanism by a comparably short range b. In this way known gun barrels, installed in tank turrets as well as short stroke recoil brake mechanism with a free run, are installable, while sparing weight and manufacturing effort, whereby, nevertheless, the long recoil path for the braking of the gun barrel while not endangering the stability of the tank vehicle is guaranteed with muzzle heights greater than 4 m.

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IPC 8 full level
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CPC (source: EP US)
F41A 23/20 (2013.01 - EP US); **F41A 25/00** (2013.01 - EP US)

Cited by
DE102009035810B4; DE102018007007A1; DE19534053A1; DE19534053C2; DE102009035810A1; EP2390613B1; EP2591304B1

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