

Title (en)

Autoloading apparatus for tank cannon

Title (de)

Automatische Munitionszuführvorrichtung für Panzerkanonen

Title (fr)

Appareil de chargement automatique pour canon de char

Publication

EP 0522831 B1 19951213 (EN)

Application

EP 92306240 A 19920707

Priority

- US 73116491 A 19910712
- US 81954692 A 19920110

Abstract (en)

[origin: EP0522831A2] An autoloader, capable of loading regardless of gun elevation, includes arcuate guide tracks, mounted for movement in azimuth with the gun and having a radius of curvature centered on the gun elevation axis, which serve to mount a trolley for guided movement between a lower magazine position and an upper gun loading position. A compact rammer, mounted by the trolley, extracts a shell from a magazine while in the trolley magazine position and controls the shell during transfer to the trolley gun loading position where the shell is rammed into the gun breech. In one disclosed embodiment, the guide tracks are mounted to a weapon pod of an exterior, turret mounted gun for movement in azimuth and elevation with the gun. In an alternative embodiment, the guide tracks are fixedly mounted in vertical orientation between the turret roof and the turret floor, and the rammer is pivotally mounted to the trolley to access shells from magazines variously located in the turret, the tank hull and the turret bustle. <IMAGE>

IPC 1-7

F41A 9/16; **F41A 9/21**; **F41A 9/43**

IPC 8 full level

F41A 9/01 (2006.01); **F41A 9/16** (2006.01); **F41A 9/21** (2006.01); **F41A 9/50** (2006.01); **F41A 23/40** (2006.01); **F41A 27/18** (2006.01)

CPC (source: EP KR)

F41A 9/00 (2013.01 - KR); **F41A 9/16** (2013.01 - EP); **F41A 9/21** (2013.01 - EP)

Cited by

EP0640805A1; CN102288069A; CN113945113A; US6591733B1; EP1318372A3; EP2366088A4; EP2366088B1

Designated contracting state (EPC)

CH DE FR GB LI SE

DOCDB simple family (publication)

EP 0522831 A2 19930113; **EP 0522831 A3 19930512**; **EP 0522831 B1 19951213**; CA 2070510 A1 19930113; DE 69206698 D1 19960125; DE 69206698 T2 19970206; IL 102347 A 19941229; JP 3140181 B2 20010305; JP H05215493 A 19930824; KR 930002792 A 19930223

DOCDB simple family (application)

EP 92306240 A 19920707; CA 2070510 A 19920604; DE 69206698 T 19920707; IL 10234792 A 19920629; JP 17556492 A 19920702; KR 920012379 A 19920711