

Title (en)

CARTRIDGE BELT FEEDING DEVICE FOR AUTOMATIC GUNS WITH GAS-OPERATED RELOADING ACTION

Publication

EP 0072421 B1 19851009 (DE)

Application

EP 82105915 A 19820702

Priority

DE 3131997 A 19810813

Abstract (en)

[origin: EP0072421A2] 1. Belt feed for an automatic barrel-type weapon, particularly a shell firing gun, with a cartridge feed selectively taken from one belt or another belt from one side or the other side into the loading chamber of the weapon, the belt being engaged by transport gear wheels of a relevant feed shaft (5), which, by means of a gas piston moved by propellant gas extracted from a barrel of the weapon, are each rotated by an axially displaceable rotary coupling (22), the feed shaft (5) being associated with a ratchet (23 or 24) and connectable to a driving pinion (1) through a distance corresponding to the feed distance of a cartridge, each feed shaft (5) having a pawl wheel (6), one of the pawls (4) associated with the relevant feed shaft (5) being mounted to pivot in the direction of the axis of the feed shaft to engage the pawl gaps of the said pawl wheel, the pawl (4) by means of control means (23, 17, 15, 16) preferably situated on the front end of the driving pinion and the pawl, is disengaged at the instant at which the feed shaft (5) is not being moved by the gas pinion, from the pawl gaps of the pawl wheel (6), even through during the rotation of the feed shaft (5) it enters the pawl gaps and rests in these latter at the end of the rotation, characterized by the following features : a) the pawl (4) is connected to two lever arms (13, 14) provided at their ends with sliding surfaces (15, 16), b) a first cam (2) and a second cam (3) are provided in the driving pinion (1), c) the sliding surface (15) of the lever arm (13) is positioned on the outer sliding surface (17) and the sliding surface (16) of the lever arm (14) is automatically positioned in the first cam (2) while the pawl (4) engages a gap of the pawl wheel (6), d) the sliding surface (16) of the lever arm (14) is positioned on the outer sliding surface (17) and the sliding surface (15) of the lever arm (13) is automatically positioned in the second cam (3) while the pawl (4) is not engaged with the pawl (6).

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