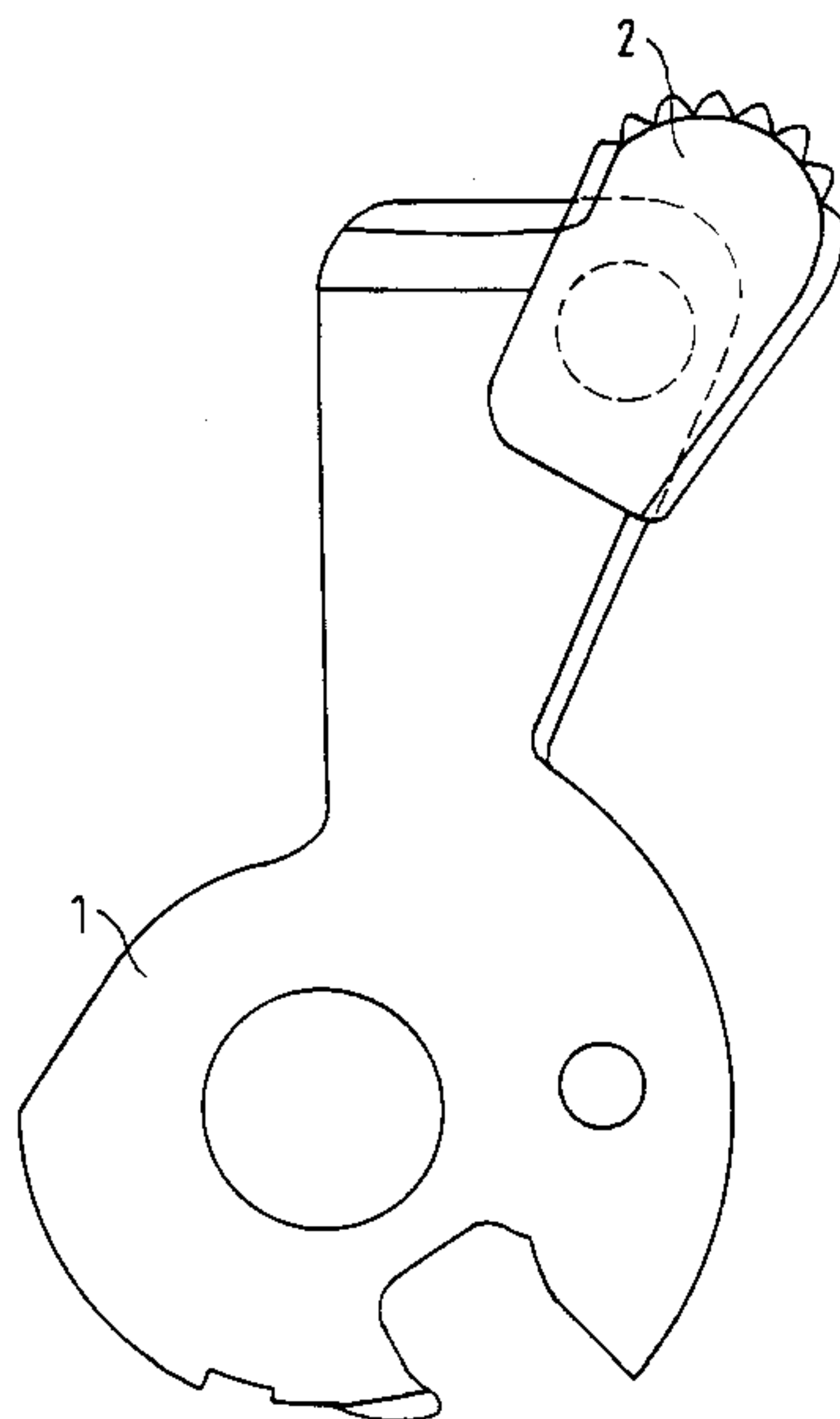




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(54) **MARTEAU POUR ARME PORTATIVE**
(54) **PORTABLE FIREARM**



(57) L'invention concerne une arme portative, plus particulièrement une arme de poing et encore plus particulièrement un pistolet mitrailleur, doté d'un marteau au moins partiellement libre qui présente un corps de marteau (1), lequel est conçu pour la mise à feu d'une cartouche par percussion et d'une extrémité (2) faisant saillie, conçue pour le maintien du corps de marteau (1) et reliée au corps de marteau, de préférence, par une liaison non rigide. L'extrémité (2) faisant saillie est fixée au corps de marteau (1) par une liaison flexible ou elle est elle-même réalisée dans une matière flexible.

(57) A portable firearm, especially a hand-gun and more especially an automatic pistol, with an at least partially free hammer having a hammer body (1) designed to fire a cartridge by percussion and a projecting end (2) arranged to hold the hammer body and is preferably flexibly connected to the hammer body (1). Either the projecting end (2) is fitted on the hammer body (1) via a flexible connection or the projecting end (2) itself is made of flexible material.

Abstract

Portable firearm, preferably a small arm, and even more preferred, an automatic pistol, having a hammer which is at least partially open and has a hammer piece (1), which is arranged for firing a bullet cartridge by striking action and an end (2) set off at a distance which is arranged for grasping the hammer piece and is preferably connected to the hammer piece (1) in a non-rigid manner, where either the end (2), set off at a distance on the hammer piece (1), is mounted via a flexible connection, or the end (2), set off at a distance, is made of flexible material.

Portable Firearm

The invention involves a portable firearm, preferably a small arm, and even more preferred, an automatic pistol, having a hammer which is at least partially open and has: a hammer piece, which is arranged for firing a bullet cartridge by striking action and an end set off at a distance which is arranged for grasping the hammer piece and is preferably connected to the hammer piece in a non-rigid manner. (Generic concept of claim 1). For weapons of this type, the hammer is arranged in order to strike a striking pin, which in turn strikes a bullet cartridge and fires it.

The striking pin sits in a recess of the breech of the weapon and is loaded by a weak spring such that it is set out a bit to the rear from out of this recess; the rear edge of the recess limits the striking movement of the hammer in the process, after it has first hit on the rear end of the striking pin, and has moved it forward.

For safety reasons, the striking pin is shorter than the distance between the bottom of the bullet cartridge and the rear edge of the aforementioned recess so that it covers a fixed distance in free-flight after it has been hit by the hammer.

In some weapons of the type described, the hammer is capable of sitting on the recess while it is uncocked and when the trigger is not actuated, such that it presses the striking pin a little bit forward. If this type of weapon is hit in this condition, against the open grip of the hammer, for example when it falls to the ground in an unfortunate manner, then it is assumed that the blow will be guided via the hammer into the edge of the recess.

However, it actually turned out that the igniting apparatus of the bullet cartridge exhibits a slight impression after an occurrence of this type. This is a safety risk.

The purpose of the invention is to eliminate this safety risk.

This purpose is achieved according to the invention by the object of claim 1, i.e. in that the portable firearm named in the beginning (according to the generic concept of claim 1) has the following characteristics in addition: the end set off at a distance for grasping the hammer piece is either arranged on the hammer piece via a flexible connection or consists of flexible material.

Preferred embodiments of this solution are given in the subordinate claims.

In this process, according to the invention, the part of the hammer which is located outside of the weapon in a position such that it can receive an undesired blow, is connected elastically, or better yet, elastically and damping, to the hammer piece and is at best made from a flexible, damping material such as rubber. The duration of the blow which is transmitted by the hammer is prolonged in the process and by this the mechanical pulse is reduced; moreover, damping material consumes pulse energy.

Two documents deal with the set of problems described above (DE-GM 69 22 046 and CH-PS 131 130), in which explicitly in the first one (DE-GM 69 22 046), no force-transmitting connection of any sort should be present between the hammer piece and the end set off at a

distance, while the second document (CH-PS 131 130) shows a complicated actuation element set into the hammer, which should hold the hammer fixed in its uncocked resting position.

The vulcanization of the grip onto a connection surface of the hammer piece, where the mount requires roughness and undercuts, is especially long-lasting.

The object of the invention is shown in an exemplary manner in the attached schematic drawing, in the only figure of which a hammer according to the invention is shown greatly enlarged in side view.

The hammer shown has a hammer piece 1, which is connected to a grip 2 on its outermost end, which lies open when the hammer is installed and is struck if the weapon falls.

The grip 2 is made out of viscoplastic rubber and is vulcanized onto the hammer piece 1, which is made of steel.

The grip 2 is pulled down over both sides of the hammer piece 1 in order to absorb a side impact, and goes through a drill hole in the hammer piece 1 in order to obtain a better hold. The contour of the hammer piece 1 is shown by dashed lines where it is covered by the grip 2.

CLAIMS:

1. Portable firearm, in particular a small arm, and even more preferred, an automatic pistol, having a hammer which is at least partially open and has the following characteristics:

a hammer piece (1), which is arranged for firing a bullet cartridge by striking action and an end (2), which is set off at a distance, is arranged for grasping the hammer piece (1) and is connected to it, characterized in that either the end (2), set off at a distance on the hammer piece (1), is mounted via a non-rigid, flexible connection, or the end (2), set off at a distance, is made of flexible material.

2. Portable firearm according to claim 1, characterized in that the flexible material of the end (2) set off at a distance, or the flexible connection, show damping characteristics.

3. Portable firearm according to claim 2, characterized in that the end (2) set off at a distance is made out of rubber.

4. Portable firearm according to claim 3, characterized in that the rubber end (2) set off at a distance is vulcanized onto the hammer piece (1).

5. Portable firearm according to one of the claims 3 or 4, characterized in that the hammer piece (1) has a recess which goes partially into its depth dimension, into which the rubber end (2) engages in a form-fit manner.

6. Portable firearm according to claim 5, characterized in that the recess is constructed as a crosswise drill hole which goes through.

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