

Title (en)

TRIGGER MECHANISM OF A FIREARM AND A METHOD OF TRIGGERING A FIREARM

Title (de)

ABZUGSMECHANISMUS EINER SCHUSSWAFFE UND VERFAHREN ZUM AUSLÖSEN EINER SCHUSSWAFFE

Title (fr)

MÉCANISME DE DÉCLENCHEMENT D'UNE ARME À FEU ET PROCÉDÉ DE DÉCLENCHEMENT D'UNE ARME À FEU

Publication

EP 4224108 A1 20230809 (EN)

Application

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Priority

FI 20225094 A 20220204

Abstract (en)

The invention relates to a trigger mechanism of a firearm, which trigger mechanism (10) comprises a hammer (11), a trigger (12), a disconnecter (13), a sear (14), two pivot pins: a front pivot pin (15F) and a central, back pivot pin (15B), a main spring (16) and two helical springs: a front helical spring (17F) and a back helical spring (17B), and a safety lever (17), which firearm comprises a bolt carrier (20) and a lower receiver (19), and in which the trigger mechanism (10) is located below the bolt carrier (20) and within the lower receiver (19) and the trigger mechanism (10), the bolt carrier (20) and the lower receiver (19) are functionally connected to operate the firearm. The hammer (11) has a back hook (111) with a front part (111F) and a back part (111B), the disconnecter (13) comprises a back hook (132), the sear has a retaining hook (142). The front part (111F) of the back hook (111) of the hammer (11) is engageable with a retaining hook (142) of the sear (14). The back part (111B) of the back hook (111) of the hammer (11) is engageable with the back hook (132) of the disconnecter (13). The front helical spring (17F) is positioned against the lower receiver (19) and configured to provide first stage force as well as trigger reset and manual cocking functionality in safe mode and the back helical spring (17B) is located between the trigger (12) and the disconnecter (13) and is configured to act on the trigger (12) and the disconnecter (13).

IPC 8 full level

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Citation (applicant)

- US 10837728 B2 20201117 - OLSON DOUGLAS DEAN [US], et al
- US 2017089655 A1 20170330 - GEISSELE WILLIAM H [US]
- US 9310150 B1 20160412 - GEISSELE WILLIAM H [US]
- US 2019257606 A1 20190822 - OLSON DOUGLAS DEAN [US], et al
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Citation (search report)

- [A] US 2009183414 A1 20090723 - GEISSELE WILLIAM H [US]
- [AD] US 2020096278 A1 20200326 - OLSON DOUGLAS DEAN [US], et al
- [AD] US 2017089655 A1 20170330 - GEISSELE WILLIAM H [US]

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