

Title (en)
DYNAMIC VARIABLE FORCE TRIGGER MECHANISM FOR FIREARMS

Title (de)
DYNAMISCHER MECHANISMUS MIT VARIABLER KRAFT FÜR FEUERWAFFEN

Title (fr)
MÉCANISME DE DÉTENTE À FORCE VARIABLE DYNAMIQUE D'ARMES À FEU

Publication
EP 3759414 A4 20211201 (EN)

Application
EP 19763322 A 20190222

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- US 201815908883 A 20180301
- US 2019019289 W 20190222

Abstract (en)
[origin: WO2019173070A1] A magnetically variable firing system for a firearm includes a trigger mechanism allowing a user to selectively adjust the trigger pull force-displacement profile by changing the static magnetic field in the mechanism. In a closed magnetic loop configuration, the trigger mechanism includes a stationary yoke and pivotably movable trigger member. The trigger member includes a trigger portion and working portion operably interfaced with the firing mechanism of the firearm for discharging the firearm. An openable first air gap formed between the trigger member and yoke is maintained in a closed position via magnetic attraction therebetween absent a trigger pull. A control insert movable relative to a second control air gap in the yoke allows adjustment of the static magnetic field to alter the trigger pull force required to actuate the trigger mechanism. Other embodiments provide an open magnetic loop trigger mechanism design adjustable to magnetically vary the trigger pull force.

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Citation (search report)

- [A] US 8132349 B1 20120313 - HUBER JOHN F [US]
- [A] EP 2887003 B1 20161228 - J G ANSCHÜTZ GMBH & CO KG [DE]
- See references of WO 2019173070A1

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EP3874221B1

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