

Title (en)  
IMPROVED MANUAL TRIGGER

Title (de)  
PERFEKTIONIRTER MANUELLER AUSLÖSER

Title (fr)  
DÉCLENCEUR MANUEL PERFECTIONNÉ

Publication  
**EP 3869526 A1 20210825 (FR)**

Application  
**EP 21158043 A 20210219**

Priority  
FR 2001764 A 20200221

Abstract (en)  
[origin: CN113299499A] A device of the manual trigger type includes a trigger mechanism and a housing accommodating the trigger mechanism. The trigger mechanism includes a push plate and a slide plate, each mounted to be translatable in the housing. The trigger mechanism has a standby state in which the push plate stops translation of the sliding plate and a trigger state in which the push plate releases translation of the sliding plate. The push plate comprises a central column, the sliding plate comprises a long hole, and the central column is embedded into the long hole. The central post and the elongated hole each comprise a first portion and a second portion adjacent to the first portion, the first portions of the central post and the elongated hole corresponding to each other and shaped so as to engage each other in a standby state of the trigger mechanism, the central post and the second portion of the elongated hole correspond to each other and are shaped so as to slide relative to each other in a triggered state of the trigger mechanism. The trigger is more reliable. The novel engagement between the push plate and the slide plate reduces the acting force of the pressure exerted on the push plate for triggering, while limiting the risk of accidental triggering. The triggering is also proved to be more reliable.

Abstract (fr)  
Un dispositif de type déclencheur manuel comprend un mécanisme de déclenchement (20) et un boîtier logeant le mécanisme de déclenchement (20). Le mécanisme de déclenchement comprend une plaque-poussoir (22) et une plaque-coulisse (24) montées chacune à translation dans le boîtier. Le mécanisme de déclenchement présente un état armé, où la plaque-poussoir bloque la translation de la plaque-coulisse, et un état déclenché, où la plaque poussoir libère la translation de la plaque-coulisse. La plaque-poussoir (22) comprend une colonne centrale et la plaque-coulisse (24) comprend un trou oblong dans lequel s'engage la colonne centrale. La colonne centrale et le trou oblong comprennent de premières sections, homologues l'une de l'autre, conformées de manière à venir mutuellement en prise dans l'état armé du mécanisme (20) et de secondes sections, homologues l'une de l'autre et adjacentes aux premières sections, conformées de manière à coulisser l'une par rapport à l'autre dans l'état déclenché du mécanisme (20).

IPC 8 full level  
**H01H 3/02** (2006.01); **G08B 25/12** (2006.01)

CPC (source: CN EP)  
**H01H 3/022** (2013.01 - EP); **H01H 9/02** (2013.01 - CN); **G08B 25/12** (2013.01 - EP); **H01H 9/16** (2013.01 - EP); **H01H 13/04** (2013.01 - EP); **H01H 2003/0233** (2013.01 - EP); **H01H 2003/0246** (2013.01 - EP)

Citation (applicant)  
FR 2707784 A1 19950120 - NEUTRONIC [FR]

Citation (search report)  
• [A] EP 2091032 A2 20090819 - SYNAPS TECHNOLOGY S R L [IT]  
• [A] EP 1965399 A1 20080903 - SIEMENS SCHWEIZ AG [CH]  
• [A] FR 2835756 A1 20030815 - AXENDIS [FR]

Designated contracting state (EPC)  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**EP 3869526 A1 20210825**; **EP 3869526 B1 20221116**; CN 113299499 A 20210824; FR 3107610 A1 20210827; FR 3107610 B1 20220121; PL 3869526 T3 20230529

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**EP 21158043 A 20210219**; CN 202110193548 A 20210220; FR 2001764 A 20200221; PL 21158043 T 20210219