

Title (en)
Firing actuator mechanism for toy gun

Title (de)
Schussauslösungsmechanismus für Spielzeugpistole

Title (fr)
Mécanisme d'actionnement du tir pour pistolet jouet

Publication
EP 2392888 A1 20111207 (EN)

Application
EP 10165100 A 20100607

Priority
EP 10165100 A 20100607

Abstract (en)
A firing actuator mechanism (A) used in a toy gun is disclosed to include a trigger mechanism (1), a link (2) having a push portion (24) and a stop portion (25) at the rear side thereof, a retaining mechanism (3) formed of a holder block (31) and a sliding block (32), a hammer (4) and a locking block (5). The sliding block (32) has an engagement portion (322) at the front side, and a first side rod (323) and a second side rod (324) at one lateral side. When the link (2) is moved backwards during a single fire mode, the push portion (24) forces the first side rod (323) to move the sliding block (32) backwards. When the link (2) is moved backwards and the rear end portion (22) is forced downwards during a continuous fire mode, the stop portion (25) is stopped against the second side rod (324) of the sliding block (32). The hammer (4) has a durable press portion (42) lockable by the locking block (5).

IPC 8 full level
F41A 19/46 (2006.01); **F41A 17/76** (2006.01); **F41A 19/12** (2006.01); **F41A 19/14** (2006.01); **F41A 19/45** (2006.01)

CPC (source: EP)
F41A 17/76 (2013.01); **F41A 19/12** (2013.01); **F41A 19/14** (2013.01); **F41A 19/45** (2013.01); **F41A 19/46** (2013.01)

Citation (search report)
• [A] US 5596162 A 19970121 - BURNS ROBERT L [US]
• [A] EP 1821059 A1 20070822 - SAT SWISS ARMS TECHNOLOGY AG [CH]
• [A] US 2007181116 A1 20070809 - WEI WILSON [TW]
• [A] DE 102005046877 A1 20060406 - WALTHER CARL GMBH [DE]
• [A] US 2006162711 A1 20060727 - MAEDA TETSUO [JP], et al

Cited by
CN104236381A; JP2015004505A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2392888 A1 20111207; **EP 2392888 B1 20130306**; DK 2392888 T3 20130429; HK 1160209 A1 20120810

DOCDB simple family (application)
EP 10165100 A 20100607; DK 10165100 T 20100607; HK 12100340 A 20120112