

Title (en)

Percussion and magazine revolving device of a toy projectile launcher

Title (de)

Schlag- und Magazindrehvorrichtung eines Werfers für Spielzeugprojekte

Title (fr)

Dispositif de percussion et de rotation de magasin d'un lanceur de projectile jouet

Publication

**EP 2573499 A1 20130327 (EN)**

Application

**EP 11181923 A 20110920**

Priority

EP 11181923 A 20110920

Abstract (en)

A toy projectile launcher includes a magazine (1). The magazine (1) forms annularly arranged cylindrical accommodation chambers (11) receiving therein cartridges (6) and has a circumference along which holding pegs (13) are arranged. A release plate (16) is attached to the magazine (1) and forms a pawl (163) for selective engagement with the holding pegs (13). A trigger (2) and a percussion mechanism (3) coupled to the trigger (2) are arranged on a carrier seat (4). The percussion mechanism (3) has a top edge to which a drive bar (34) is mounted. The magazine (1) is rotated to compress an elastic element arranged therein. When the trigger (2) is pulled, the percussion mechanism (3) is caused to fire one cartridge (6), and at the same time, the drive bar (34) pushes the release plate (16) away to make the pawl (163) disengaging the holding pegs (13), thereby allowing the magazine (1) to rotate an angle for being ready to fire the next grenade (6).

IPC 8 full level

**F41A 9/28** (2006.01); **F41B 11/54** (2013.01); **F41C 3/16** (2006.01)

CPC (source: EP)

**F41A 9/28** (2013.01); **F41B 11/54** (2013.01); **F41C 3/16** (2013.01)

Citation (search report)

- [A] US 4426802 A 19840124 - WALKER HILTON R [ZA]
- [A] US 4702030 A 19871027 - SCHREIBER PARIS H S [CA]
- [A] US 2011041824 A1 20110224 - JABLONSKI BRIAN [US], et al
- [A] GB 1601918 A 19811104 - HILVENNA LTD
- [A] US 7059316 B1 20060613 - TSENG JUI-FU [TW]

Cited by

CN105258556A; CN110081775A; WO2020253095A1; US11796281B1; DE102023116252A1

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2573499 A1 20130327; EP 2573499 B1 20140226**

DOCDB simple family (application)

**EP 11181923 A 20110920**