

Title (en)

Backward momentum transferring mechanism for toy gun

Title (de)

Mechanismus zur Übertragung eines Rückwärtsmomentums für Spielzeugwaffe

Title (fr)

Mécanisme de transfert de recul pour arme jouet

Publication

**EP 2472213 A1 20120704 (EN)**

Application

**EP 10015468 A 20101209**

Priority

EP 10015468 A 20101209

Abstract (en)

A toy gun includes a housing (1); a barrel extending forwardly of the housing (1); a motor in a pistol grip; a speed reduction gear in the housing (1) and operatively connected to the motor; a bullet loading unit (4) in a forward end of the housing (1); a spring biased piston (5) in a fixed cylinder (52) of the housing (1); a trigger for activating the motor for firing; and a backward momentum transferring mechanism (6) partially disposed in a gunstock (12) and including an intermediate weight (61), a forward sliding rod (62) disposed rearward of the piston (5), and a rear recoil spring (63) having a front end urging against a rear end of the weight (61) and a rear end urging against an internal wall in the gunstock (12). The sliding rod (62) is disposed in the housing (1) and spaced apart from the weight. The backward momentum transferring mechanism (6) can simulate recoil by generating a recoil shock.

IPC 8 full level

**F41A 33/06** (2006.01); **F41B 11/644** (2013.01)

CPC (source: EP)

**F41A 33/06** (2013.01); **F41B 11/644** (2013.01)

Citation (search report)

- [X] EP 2113736 A1 20091104 - TOKYO MARUI CO LTD [JP]
- [I] EP 2177862 A1 20100421 - HU SHIH CHE [TW]

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)

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