

Title (en)
MULTI-DIRECTIONAL LAUNCHER

Title (de)
MULTIDIREKTIONALER WERFER

Title (fr)
LANCEUR MULTIDIRECTIONNEL

Publication
EP 3838358 B1 20230906 (EN)

Application
EP 19849931 A 20190626

Priority
• CN 201810941190 A 20180817
• CN 2019092933 W 20190626

Abstract (en)
[origin: EP3838358A1] A multi-directional launcher (1000) includes: a hand-held portion (100); a launcher body (200) movably disposed on the hand-held portion (100) and having at least a first launch position and a second launch position; a launcher head assembly comprising a rotating body and a retaining member, the rotating body being disposed on the launcher body (200) in a freely rotatable manner, and the retaining member being disposed on the rotating body for retaining or releasing an object to be launched; and a direction-changing driver (400) connected between the hand-held portion (100) and the launcher body (200) and capable of driving the launcher body (200) to change from the first launch position to the second launch position upon triggering. The launcher head assembly of the multi-directional launcher (1000) is vertically flippable with respect to the hand-held portion (100), enabling upward and downward flipping modes. The launcher head assembly cooperates with the direction-changing driver (400) to realize upward and downward launching of the object to be launched, thereby providing novel experience to users, and increasing enjoyability of a toy.

IPC 8 full level
A63H 1/02 (2006.01)

CPC (source: CN EP KR RU)
A63H 1/02 (2013.01 - EP KR); **A63H 1/04** (2013.01 - CN RU); **A63H 29/04** (2013.01 - RU); **A63H 29/20** (2013.01 - EP KR);
A63H 29/24 (2013.01 - EP KR); **A63H 31/06** (2013.01 - EP KR); **A63H 31/08** (2013.01 - EP KR)

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

DOCDB simple family (publication)
EP 3838358 A1 20210623; **EP 3838358 A4 20220525**; **EP 3838358 B1 20230906**; BR 112021002837 A2 20210504; CN 110251951 A 20190920; CN 110251951 B 20240820; ES 2962690 T3 20240320; HR P20231393 T1 20240216; KR 102290196 B1 20210817; KR 20210035315 A 20210331; RU 2757700 C1 20211020; WO 2020034767 A1 20200220

DOCDB simple family (application)
EP 19849931 A 20190626; BR 112021002837 A 20190626; CN 201810941190 A 20180817; CN 2019092933 W 20190626; ES 19849931 T 20190626; HR P20231393 T 20190626; KR 20217007981 A 20190626; RU 2021105344 A 20190626