

Title (en)
BREECH DRIVE FOR A WEAPON

Title (de)
VERSCHLUSSANTRIEB FÜR EINE WAFFE

Title (fr)
ENTRAÎNEMENT DE CULASSE POUR ARME

Publication
EP 2359085 B1 20150902 (DE)

Application
EP 09752743 A 20091107

Priority
• EP 2009007974 W 20091107
• DE 102008060217 A 20081204

Abstract (en)
[origin: US2012132062A1] A drive for a weapon is provided, wherein rotational motion of a motor is converted to a forward or reverse motion of the breech in a simple manner using the Scotch yoke principle. In order to allow rest periods of the breech in the end positions, the crank radius is defined by a control cam, which changes when the crank is rotated. The hinge pin of the crank may be externally driven via a pinion shaft. A yoke pin is arranged in a groove of the crank so as to be radially displaceable and carries the breech carrier or the breech in a groove extending transversely to the direction of fire via a sliding block. Two rollers are arranged on the crank pin and run in control cams in the weapon or crank housing. The control cam is subdivided into different sectors/sections, thereby achieving the desired motion of the breech.

IPC 8 full level
F41A 7/08 (2006.01)

CPC (source: EP KR US)
F41A 7/08 (2013.01 - EP KR US); **F41A 9/38** (2013.01 - KR); **F41A 9/50** (2013.01 - EP KR US); **F41A 9/51** (2013.01 - EP KR US);
F41A 17/18 (2013.01 - EP KR US)

Cited by
WO2021099132A1; US11815325B2

Designated contracting state (EPC)
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

DOCDB simple family (publication)
US 2012132062 A1 20120531; US 8616112 B2 20131231; AU 2009321869 A1 20100610; AU 2009321869 B2 20141030;
CA 2745449 A1 20100610; CA 2745449 C 20160906; DE 102008060217 A1 20100610; EP 2359085 A1 20110824; EP 2359085 B1 20150902;
ES 2551554 T3 20151119; IL 213224 A0 20110731; IL 213224 A 20141130; JP 2012511132 A 20120517; JP 5607643 B2 20141015;
KR 101688669 B1 20161221; KR 20110106336 A 20110928; MY 153519 A 20150227; RU 2011127099 A 20130110; RU 2496074 C2 20131020;
WO 2010063354 A1 20100610; ZA 201103850 B 20120125

DOCDB simple family (application)
US 201113154235 A 20110606; AU 2009321869 A 20091107; CA 2745449 A 20091107; DE 102008060217 A 20081204;
EP 09752743 A 20091107; EP 2009007974 W 20091107; ES 09752743 T 20091107; IL 21322411 A 20110530; JP 2011538854 A 20091107;
KR 20117015455 A 20091107; MY PI20112117 A 20091107; RU 2011127099 A 20091107; ZA 201103850 A 20110525