

Title (en)

METHOD FOR INCREASING THE RANGE OF SPIN-STABILIZED PROJECTILES, AND PROJECTILE OF SAID TYPE

Title (de)

VERFAHREN ZUR STEIGERUNG DER REICHWEITE VON DRALLSTABILISIERTEN PROJEKTILEN UND EBENSOLCHES PROJEKTIL

Title (fr)

PROCÉDÉ PERMETTANT D'AUGMENTER LA PORTÉE DE PROJECTILES GYROSCOPÉS ET PROJECTILE DE CE TYPE

Publication

EP 3028002 B1 20180829 (DE)

Application

EP 14744849 A 20140730

Priority

- CH 13422013 A 20130731
- EP 2014066341 W 20140730

Abstract (en)

[origin: WO2015014877A1] To increase the range of a spin-stabilized projectile which moves in a surrounding medium, the surrounding medium from a stagnant-water region of the projectile is, by means of a part of the rotational energy of the projectile, conveyed under the inflowing boundary layer at the outer surface of the projectile, and thus the speed gradient of the boundary layer in the vicinity of the wall is reduced. For this purpose, the outer surface has at least one encircling groove (9) which is connected by radial transverse ducts (10) to at least one longitudinal duct (11) in the interior of the projectile, which in turn is connected to an opening in the rear of the projectile.

IPC 8 full level

F42B 10/38 (2006.01)

CPC (source: EP US)

F42B 10/38 (2013.01 - EP US)

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)

WO 2015014877 A1 20150205; CH 708412 A2 20150213; EP 3028002 A1 20160608; EP 3028002 B1 20180829; ES 2699433 T3 20190211; HU E040260 T2 20190228; TR 201816455 T4 20181121; US 10094644 B2 20181009; US 2016169644 A1 20160616

DOCDB simple family (application)

EP 2014066341 W 20140730; CH 13422013 A 20130731; EP 14744849 A 20140730; ES 14744849 T 20140730; HU E14744849 A 20140730; TR 201816455 T 20140730; US 201414908488 A 20140730