

Title (en)

METHOD AND DEVICE FOR RIFLING BARRELS OF FIREARMS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON ZÜGEN IN LÄUFEN VON FEUERWAFFEN

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE PRODUIRE DES RAYURES DANS LE CANON D'ARMES À FEU

Publication

**EP 3468739 A1 20190417 (DE)**

Application

**EP 17730749 A 20170609**

Priority

- AT 2016000062 W 20160609
- EP 2017064189 W 20170609

Abstract (en)

[origin: WO2017210709A1] The invention relates to the production of the grooves in barrels by means of a PECM (precise electrochemical machining) method. In known solutions, the barrels are inserted into and clamped in the PECM tool in a horizontal position. A disadvantage of this is that the prevalent gravitation can cause undesired effects (long, thin barrels can deflect or sag somewhat depending on the clamping situation). In addition, horizontal machine tools require a relatively large amount of space. The problem addressed by the invention is that of eliminating the aforementioned disadvantages of the known solutions. The design of the tool was thoroughly revised such that the barrels can be inserted into the tool in a vertical position and therefore gravitational effects are entirely eliminated. This design also makes it possible to reduce the space required by the machine tool. Because of the design of said tool, one or more barrels can be inserted and machined simultaneously, which reduces the machining time. Barrels up to a length of 1500 mm can be produced by means of said tool.

IPC 8 full level

**B23H 9/00** (2006.01); **B23H 3/00** (2006.01); **B23H 9/14** (2006.01); **F41A 21/18** (2006.01)

CPC (source: EP US)

**B23H 3/00** (2013.01 - EP US); **B23H 9/005** (2013.01 - EP US); **F41A 21/18** (2013.01 - EP US); **B21C 37/152** (2013.01 - US); **B23H 9/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2017212051A1

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)

**WO 2017210709 A1 20171214**; DE 202017007570 U1 20221011; EP 3468739 A1 20190417; US 11181333 B2 20211123; US 2019154383 A1 20190523; WO 2017212051 A1 20171214

DOCDB simple family (application)

**AT 2016000062 W 20160609**; DE 202017007570 U 20170609; EP 17730749 A 20170609; EP 2017064189 W 20170609; US 201716308598 A 20170609