

Title (en)

PRE-STRESSED BORE BARREL AND RELATED MANUFACTURING METHOD

Title (de)

VORGESPANNTE BOHRSTANGE UND ENTSPRECHENDES HERSTELLUNGSVERFAHREN

Title (fr)

CANON À ÂME PRÉ-CONTRAINTE ET PROCÉDÉ DE FABRICATION DE CELUI-CI

Publication

**EP 2341309 A4 20130807 (EN)**

Application

**EP 09818839 A 20091007**

Priority

- ES 2009070424 W 20091007
- ES 200802840 A 20081007
- ES 200900357 A 20090209

Abstract (en)

[origin: EP2341309A1] Enables the loss of firing accuracy caused by the progressive heating of the barrel in a long succession of shots to be reduced, comprising at least: an internal rifled bore (1), an external casing (2), mounted on the rifled bore (1) coaxially, and fitted with a high polar moment of inertia designed to withstand the tension of the rifled bore (1) and at the same time provide rigidity to the unit, and a coupling nut (3) designed to fix said parts together. It also has at least two drilled holes (5, 6) that pass through the wall of the rifled bore (1) balancing the temperature between said rifled bore (1) and the external casing (2), such that the original pre-stressed conditions of the barrel are maintained. The external casing (2) may have a gas intake (10), designed for the operation of a repeater mechanism.

IPC 8 full level

**F41A 21/02** (2006.01)

CPC (source: EP ES US)

**F41A 21/02** (2013.01 - EP ES US); **F41A 21/18** (2013.01 - EP US); **F41A 21/20** (2013.01 - EP US); **F41A 21/24** (2013.01 - EP US); **F41A 21/28** (2013.01 - EP ES US)

Citation (search report)

- [XY] GB 2350881 A 20001213 - GAMBLE STEFAN [GB]
- [Y] US 2004244257 A1 20041209 - DEGERNESS MICHAEL K [US]
- [A] US 5856631 A 19990105 - JULIEN GERALD J [US]
- See references of WO 2010040886A1

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)

**EP 2341309 A1 20110706; EP 2341309 A4 20130807**; ES 2324454 A1 20090806; ES 2324454 B1 20100713; ES 2336535 A1 20100413; ES 2336535 B1 20110418; US 2011265365 A1 20111103; WO 2010040886 A1 20100415

DOCDB simple family (application)

**EP 09818839 A 20091007**; ES 200802840 A 20081007; ES 200900357 A 20090209; ES 2009070424 W 20091007; US 200913122141 A 20091007