

Title (en)

Process for coating the inner surface of a gun barrel

Title (de)

Verfahren zur Beschichtung der inneren Oberfläche des Waffenrohres

Title (fr)

Procédé pour le revêtement de l'intérieur d'un tube d'arme

Publication

EP 1715080 B1 20080903 (DE)

Application

EP 06006655 A 20060330

Priority

DE 102005018618 A 20050421

Abstract (en)

[origin: EP1715080A1] In a weapon barrel having a protective layer (4) on at least a partial region (3) of its internal surface (2), the protective layer is produced by cold spraying. An independent claim is included for a method for coating at least a partial region of the internal surface of a weapon barrel by applying the coating material to the surface by cold spraying, in which: a Laval nozzle located in the internal cavity of the barrel accelerates a gas to supersonic speed; powdered coating material is injected into the gas jet before the nozzle; the powder is accelerated together with the gas onto the surface to be coated; and the apparatus is moved relative to the barrel, so that a flat coating is obtained.

IPC 8 full level

C23C 24/04 (2006.01); **F41A 21/00** (2006.01); **F41A 21/02** (2006.01); **F41A 21/20** (2006.01)

CPC (source: EP)

C23C 24/04 (2013.01); **F41A 21/22** (2013.01)

Cited by

AT14202U1; US9783882B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1715080 A1 20061025; EP 1715080 B1 20080903; AT E407233 T1 20080915; DE 102005018618 A1 20061026; DE 502006001471 D1 20081016; ES 2310869 T3 20090116

DOCDB simple family (application)

EP 06006655 A 20060330; AT 06006655 T 20060330; DE 102005018618 A 20050421; DE 502006001471 T 20060330; ES 06006655 T 20060330