

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 A1 20061025 (DE)**

Application

**EP 06006655 A 20060330**

Priority

DE 102005018618 A 20050421

Abstract (en)

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)

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Citation (search report)

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