

Title (en)

Apparatus for hardening the internal contour of a gun barrel with laser beam

Title (de)

Vorrichtung zum Härten der Innenkontur eines Waffenrohres mit Laserstrahlung

Title (fr)

Appareil de recuit du contour interne d'un tube de canon pour arme avec un faisceau laser

Publication

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Application

EP 98116447 A 19980831

Priority

DE 19741028 A 19970918

Abstract (en)

[origin: DE19741028C1] The apparatus serves for hardening the inner contour of a barrel (1) of a weapon by laser radiation. It includes a laser (12) and a laser head (10) which is movable along the barrel axis (4), and is provided with an optical system (17) serving for beam deflection. As a result, laser radiation is directed perpendicular to the inner surface (5) of the barrel. The laser (12) is a Nd:YAG laser which is connected to the laser head (10) by means of an optical fibre. The laser head is centred at the barrel end (8), and is attached to a bar (3) which is movable along the barrel axis (4).

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CPC (source: EP US)

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