

Title (en)

PROCESS FOR REMELTING METAL SURFACES BY LASER.

Title (de)

VERFAHREN ZUM LASERUMSCHMELZEN METALLISCHER OBERFLÄCHEN.

Title (fr)

PROCEDE DE REFUSION DE SURFACES METALLIQUES PAR LASER.

Publication

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Application

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Abstract (en)

[origin: WO9218653A1] Process for remelting metal surfaces by laser, in particular cam shafts. WIG remelting processes and also laser remelting processes with a rectangular focus are known. In the latter, however, remelting is performed in several stages. The purpose of the invention is to shorten the cycle times and further increase cost-effectiveness. The process of the invention also operates with a laser beam focussed to a rectangle, the length of which extends, however, over the entire width of the workpiece surface and thus the cam (11). The power density and relative speed reciprocating are set to obtain a certain remelting depth. Production of camshafts for reciprocating piston engines.

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