

Title (en)

Process and apparatus for the formation of surface layers on articles and articles with a surface layer formed according to this process

Title (de)

Verfahren zum Herstellen von Oberflächenschichten auf Werkstücken, Vorrichtung zum Durchführen des Verfahrens sowie Werkstück mit nach dem Verfahren hergestellter Oberflächenschicht

Title (fr)

Procédé et installation de couches superficielles sur des articles et articles ainsi fabriqués

Publication

EP 0462047 B1 19971126 (DE)

Application

EP 91810343 A 19910503

Priority

CH 199290 A 19900613

Abstract (en)

[origin: EP0462047A1] During the process, the article (10) to be provided with the surface layer (101), or part of said article, is heated to a first temperature by means of an inductive RF/MF generator heater (2, 20). Using a laser apparatus (3, 30, 30', 31, 32), regions (10") of the surface to be coated are heated further and the surface layer is generated on the article (10, 10', 10"). The apparatus comprises the laser device (3, 30, 30', 31, 32) and the RF/MF heater (2, 20) which allow the article (10, 10', 10") to be thermally influenced and treated by both simultaneously. The surface layers (101) produced according to the process have improved quality since the process permits a clearly improved adherence to temperature and other process parameters. <IMAGE>

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Cited by

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