

Title (en)

Process and installation for forming a metal product by applying a photo semi-conducting material.

Title (de)

Verfahren und Vorrichtung zum Formen eines metallischen Produktes unter Anwendung eines Photo-Halbleiter-Materials.

Title (fr)

Procédé et dispositif pour la formation d'un produit métallique par application d'un matériel photo semi-conducteur.

Publication

EP 0041291 A1 19811209 (EN)

Application

EP 81200541 A 19810521

Priority

NL 8003134 A 19800529

Abstract (en)

A process of forming metal products by providing a coating (2) of semi-conductive material upon a conducting substrate (5) which is provided with a primary pattern of charged regions (2a - 2d) of a latent electrostatic image; a pattern of regions (4a - 4d) of plastics particles being deposited upon said charged regions (2a-2d) of the semi-conductive material, transferring said pattern (4a-4d) of plastics material to a metal carrier (1), fusing said plastics material to the carrier (1), removing metal by etching from or depositing metal upon uncoated parts (6a - 6c) of the carrier and removing the regions of plastics (4a-4d) from the carrier (1). An installation for forming these metal articles comprises a support (15) for a substrate (5), a corona discharge member (17), a plastics applying member (13) a second support (14) for a carrier (1), said support (14) being able to position a carrier (1) opposite the substrate (5), a potential source (22) for charging a carrier (1), an etching member (9) or a galvanically metal depositing member (20), and a plastics removing bath (21).

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Citation (search report)

- US 3999481 A 19761228 - SANKUS JR JOSEPH G
- US 3361058 A 19680102 - MICHAEL MICHALCHIK
- DE 2539025 A1 19760311 - AUSTRALIA RES LAB
- FR 1480896 A 19670512 - RANK XEROX LTD

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