

Title (en)

PROCESS FOR PARTIAL COLOURING OF PLASTIC PARTS USING SOLID COLOURANTS IN COLOUR-CARRIER LAYERS

Title (de)

VERFAHREN FÜR DAS PARTIELLE EINFÄRBen VON KUNSTSTOFFTEILEN MITTELS FESTER FARBSTOFFE IN FARBTRÄGERSCHICHTEN

Title (fr)

PROCÉDÉ DE COLORATION PARTIELLE DE PIÈCES EN PLASTIQUE EN UTILISANT DES COLORANTS SOLIDES DANS DES COUCHES DE PORTEUSES DE COULEUR

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Application

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Abstract (en)

[origin: WO2022218900A1] The invention relates to a process for partial colouring, in particular colour laser engraving, of plastic parts, preferably of thermoplastic parts, very particularly preferably of thermoplastic parts comprising a layer construction, comprising the steps of: i) providing a plastic part (A) having at least one surface; ii) laying a colour tape atop at least one portion of the at least one surface of the plastic part (A) to obtain a surface of the plastic part (A) covered with the colour tape; iii) irradiating the plastic part (A) from ii) with focused, preferably nonionizing, electromagnetic radiation (C) on at least one portion of the surface of the plastic part (A) covered with the colour tape, wherein the partial colouring is effected essentially only at the sites on the plastic part (A) irradiated in step iii), wherein the wavelength range of the focused, preferably nonionizing, electromagnetic radiation (C) is in a range from 200 to 20 000 nm, preferably in a range from 300 to 18 000 nm, particularly preferably in a range from 350 to 16 000 nm.

IPC 8 full level

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