

Title (en)

METHOD FOR TREATING A SURFACE WITH IR LASER LIGHT

Title (de)

VERFAHREN ZUM BEHANDELN EINER OBERFLÄCHE MIT IR-LASERLICHT

Title (fr)

PROCÉDÉ DE TRAITEMENT D'UNE SURFACE À LA LUMIÈRE LASER IR

Publication

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Application

EP 21839358 A 20211210

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Abstract (en)

[origin: WO2022128800A1] The invention relates to a method for pretreating a polymer-coated surface (11) that comprises particles and/or pigments, wherein laser light is emitted by a laser source (110), in particular a pulsed infrared laser beam (111) in the near-infrared range with a pulse fluence of 0.01 to 50 J/cm² is generated. The method also comprises orienting the laser light by a deflection unit (115) as a laser beam (111) towards the surface (11) and moving the laser light over the surface (11) along a path (40). The emission of the pulsed laser light comprises setting the pulse fluence so that first particles and/or pigments of the surface (11) which face the laser beam (111) absorb the pulsed infrared laser light (111), and part of the surface detaches, the layer thickness of the polymer after detachment being greater than or equal to 50%, preferably greater than or equal to 75%, particularly preferably greater than or equal to 90% of the original layer thickness of the polymer.

IPC 8 full level

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