Title (en)

METHOD AND DEVICE FOR REMOVING OXIDE LAYERS ON BUILDING COMPONENTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENTFERNUNG VON OXIDSCHICHTEN AUF BAUTEILEN

Title (fr)

PROCEDE ET DISPOSITIF POUR ENLEVER DES COUCHES D'OXYDE SUR DES ELEMENTS CONSTITUTIFS

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Application

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Abstract (en)

[origin: WO9936197A1] The invention relates to a method for cleaning building components (3) which are soiled and on which grease or oil adhere while simultaneously removing oxide layers (4) found on the building component (3) and resulting from thermal treatment methods, especially while using a laser. The invention also relates to a device necessary for carrying out said method. The glass-like oxide layer (4) resulting from the effect of the laser is thus chemically converted into an amorphous layer by a component (K1) of the liquid medium (2), said component containing phosphorous derivatives, in such a way that is it possible to remove the oxide layer (4) from the building component (3) in a simple manner. To this end, the building component (3) provided with an oxide layer (4) is surrounded by a medium (2) in a receptacle (1). Said medium removes the media which is soiling the component, and also dissolves the oxide layer (4). Sound waves (6) are passed into said medium via oscillating rods (5) thus leading to the removal of the oxide layer (4) from the building component (3). The receptacle (1) is produced in such a way that the inventive method can be integrated and carried out separately or in already existing technological processes relating to the treatment of building component surfaces.

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