

Title (en)
METHOD FOR REMOVING WASTE PRODUCTS PRODUCED WHILE STRIPPING MATERIAL IN TRANSPARENT OBJECTS BY LASER-INDUCED PLASMA FORMATION

Title (de)
VERFAHREN ZUM ENTFERNEN VON ABPRODUKTEN, DIE BEIM MATERIALABTRAG IN TRANSPARENTEN OBJEKTEN DURCH LASERINDUZIERTE PLAMABILDUNG ENTSTEHEN

Title (fr)
PROCEDE D'ELIMINATION DE DECHETS ISSUS D'UN ENLEVEMENT DE MATIERE SUR DES OBJETS TRANSPARENTS PAR FORMATION DE PLASMA INDUITE PAR LASER

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Application
EP 02804587 A 20021211

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Abstract (en)
[origin: US2005090813A1] Method for the removal of waste products generated while removing materials in transparent objects by way of laser-induced breakdown. The task was to quickly and safely remove the solid, liquid or gaseous waste products generated inside the object during the treatment of the material by laser. According to the invention, for the free or forced exit from the object of the waste products generated through breakdown, at least one canal, preferably of a capillary diameter, is created or opened inside the object between the ablation area of the laser material treatment and the object's exterior. The method is used in laser-induced material treatment inside of transparent objects, in particular during the intrastromal ablation of tissues of the cornea of the eye for defective vision correction.

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