

Title (en)

METHOD AND APPARATUS FOR LASER PROCESSING OF A WORKPIECE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR LASERBEARBEITUNG EINES WERKSTÜCKS

Title (fr)

PROCÉDÉ ET APPAREIL POUR LE TRAITEMENT AU LASER D'UNE PIÈCE À TRAVAILLER

Publication

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Application

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Abstract (en)

[origin: WO2022253606A1] The present invention relates to an apparatus for laser processing of a workpiece (104) by means of a focal zone (106), the workpiece (104) comprising a transparent material (102), the apparatus comprising a beam shaping device (110; 110') for forming the focal zone (106) from an input laser beam (112), the focal zone (106) having an elongate form in relation to a longitudinal axis (108) and the focal zone (106) having, perpendicular to the longitudinal axis (108), an asymmetric cross section (140) with a preferred direction (146), a final control element (184) for changing the preferred direction (146) during the laser processing of the workpiece (104), and a controller (186) for controlling the final control element (184) on the basis of a specified assignment rule in an open and/or closed loop control of the preferred direction (146) during the laser processing of the workpiece (104).

IPC 8 full level

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