

Title (en)

RADIATION BEAM-ASSISTED JOINING MACHINE, IN PARTICULAR LASER TRANSMISSION WELDING DEVICE

Title (de)

STRAHLGESTÜTZTE FÜGEMASCHINE, INSBESONDERE LASER-DURCHSTRAHL-SCHWEISSEINRICHTUNG

Title (fr)

MACHINE D'ASSEMBLAGE ASSISTÉE PAR FAISCEAU, EN PARTICULIER DISPOSITIF DE SOUDAGE PAR TRANSMISSION LASER

Publication

EP 2822752 A1 20150114 (DE)

Application

EP 13708393 A 20130228

Priority

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- EP 2013053991 W 20130228

Abstract (en)

[origin: WO2013131797A1] A radiation assisted joining machine, in particular laser transmission welding device, comprises an irradiation head (1) for providing a joining radiation beam (2) that generates a joint seam (5) between two components (3, 4), a receptacle (7) for mounting the first component (3), and a clamping device for clamping the components (3, 4), in particular for clamping components (3, 4) with a three-dimensionally running joint seam (5), which clamping device has clamping means (11, 19) adapted to the path of the joint seam for generating a clamping force between the two components (3, 4) at least in the region of each joining zone (F) to which the joining radiation beam (2) is applied, wherein a magnetic or magnetisable strip (11) that is adapted to the path of the joint seam (5) is provided as a clamping means and applies a clamping force (A) to the components (3, 4) by means of a control magnet (19) guided with the joining radiation beam (2), the clamping force being due to the magnetic forces acting between the strip (11) and the control magnet (19) at least in the region of the joining zone (F) to which the joining radiation beam (2) is applied.

IPC 1-7

B23K 26/42

IPC 8 full level

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Citation (search report)

See references of WO 2013131797A1

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