

Title (en)

LASER APPARATUS FOR PRODUCING A LINEAR INTENSITY DISTRIBUTION IN A WORKING PLANE

Title (de)

LASERVORRICHTUNG ZUR ERZEUGUNG EINER LINIENFÖRMIGEN INTENSITÄTSVERTEILUNG IN EINER ARBEITSEBENE

Title (fr)

DISPOSITIF LASER POUR LA PRODUCTION D'UNE RÉPARTITION LINÉAIRE D'INTENSITÉ DANS UN PLAN DE TRAVAIL

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Application

EP 11763877 A 20110908

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Abstract (en)

[origin: WO2012032116A1] The invention relates to an illumination apparatus (1) for producing a linear intensity distribution in a working plane, comprising: at least one group of laser light sources (2, 2a - 2j), which are arranged one above the other in a number N of rows (R1-R6) with in each case a number M of laser light sources (2, 2a - 2j) which are arranged one next to the other, such that they can emit laser light in a first propagation direction; a number of beam-deflection means (4), which are arranged behind the laser light sources (2, 2a - 2j) in the first propagation direction and configured such that they can deflect the laser light emitted by the laser light sources (2, 2a - 2j) into a second propagation direction to the working plane; beam-merging means, which are arranged behind the beam-deflection means (4) in the second propagation direction such that they can merge the individual laser beam bundles of the laser light sources (2, 2a - 2j) into the linear intensity distribution, with adjacent rows (R1-R6) being arranged in a first direction (x-direction) perpendicular to the first and second emission directions and also offset with respect to one another in the first propagation direction (z-direction) such that the laser beam bundles (A-L) of the laser light sources (2, 2a - 2j) can enter the beam-merging means without overlap.

IPC 8 full level

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