

Title (en)

LASER SYSTEM FOR PRODUCING A LINEAR LASER MARKING

Title (de)

LASERSYSTEM ZUR ERZEUGUNG EINER LINIENFÖRMIGEN LASERMARKIERUNG

Title (fr)

SYSTÈME LASER POUR PRODUIRE UN MARQUAGE LASER LINÉAIRE

Publication

**EP 4078274 A1 20221026 (DE)**

Application

**EP 20817012 A 20201207**

Priority

- EP 19216511 A 20191216
- EP 2020084868 W 20201207

Abstract (en)

[origin: WO2021122100A1] A laser system (10) for producing a linear laser marking (34) on a projection surface (33) comprises a laser beam source (11), which produces a laser beam (25) and emits the latter along a propagation direction (26), a first beam shaping optical unit (12), which is embodied as a collimation optical unit and which has a first optical axis (13), and a conical mirror (14), which is embodied as a right cone with a cone axis (15) and a reflective lateral surface (22) and which is disposed downstream of the collimation optical unit (12) in the beam path of the laser beam, with the cone axis (15) being aligned parallel to the first optical axis (13). The laser system (10) comprises a second beam shaping optical unit (16), which is disposed upstream of the conical mirror (14) in the beam path of the laser beam and which shapes the laser beam into an annular beam (28) with an intensity minimum in the beam center.

IPC 8 full level

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CPC (source: EP US)

**G01C 15/004** (2013.01 - EP US); **G02B 27/0927** (2013.01 - EP US)

Citation (search report)

See references of WO 2021122100A1

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