

Title (en)
OPTICAL SCANNER

Title (de)
OPTISCHER SCANNER

Title (fr)
SCANNER OPTIQUE

Publication
EP 3475754 A1 20190501 (DE)

Application
EP 17732374 A 20170619

Priority
• DE 102016111531 A 20160623
• EP 2017064973 W 20170619

Abstract (en)
[origin: WO2017220510A1] Exemplary embodiments relate to an optical scanner (100) for deflecting a beam, which comprises: a mirror element (110) with a front side and a rear side, wherein the front side is configured to deflect the beam; a first frame (130), which is at least pivotable in relation to a second frame (140) about an axis of rotation (150), which is mechanically coupled with the mirror element (110) and comprises a recess (170); and a Lorentz force drive unit (180), which is partially disposed in the recess (170) of the first frame (130) and is configured to exert torque on the first frame (130) in relation to the axis of rotation (150); wherein the scanner (100) is configured to allow a sensor (420) direct access to at least part of the rear side of the mirror element (110). This can make it possible to improve the trade-off in an optical scanner (100) with respect to the achievable scanning rate, the beam diameter that can be deflected, its precision, its stability, the achievable deflection angle and also the installation space required.

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G02B 26/08 (2006.01)

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Citation (search report)
See references of WO 2017220510A1

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