

Title (en)

SENSOR DEVICE

Title (de)

ABTASTVORRICHTUNG

Title (fr)

DISPOSITIF DE BALAYAGE

Publication

EP 1421402 A2 20040526 (DE)

Application

EP 02760119 A 20020809

Priority

- DE 0203027 W 20020809
- DE 10142458 A 20010831
- DE 10144130 A 20010907

Abstract (en)

[origin: US2004233491A1] An optical scanning apparatus includes a radiation source that emits a radiation beam, a rotating first prism that deflects the emitted beam, a first lens that projects the deflected emitted beam onto a scene to be scanned, a second lens that receives a reflected beam arising as a reflection of the emitted beam from the scene and projects the reflected beam onto a rotating second prism, which deflects the reflected beam onto a photodetector. The first and second prisms are respectively rigidly mounted on or connected to a common rotatable drive axle, preferably on two opposite ends of the drive axle, which is preferably a rotor shaft of a drive motor. Thereby, the rotation of the two deflection prisms is positively and precisely synchronized, and the overall apparatus is compact, simple and robust. This apparatus is suitable for use in an optical distance radar system for a motor vehicle.

IPC 1-7

G01S 7/481

IPC 8 full level

G02B 26/10 (2006.01); **G01S 7/481** (2006.01); **G01S 17/931** (2020.01)

CPC (source: EP US)

G01S 7/4813 (2013.01 - EP US); **G01S 7/4817** (2013.01 - EP US); **G01S 17/931** (2020.01 - EP US)

Citation (search report)

See references of WO 03025620A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

US 2004233491 A1 20041125; EP 1421402 A2 20040526; JP 2005502897 A 20050127; WO 03025620 A2 20030327; WO 03025620 A3 20031009

DOCDB simple family (application)

US 78888804 A 20040227; DE 0203027 W 20020809; EP 02760119 A 20020809; JP 2003529195 A 20020809