Title (en)

DEVICE AND METHOD FOR CALIBRATING A LIDAR

Title (de)

VORRICHTUNG UND VERFAHREN ZUR KALIBRIERUNG EINES LIDARS

Title (fr)

DISPOSITIF ET PROCEDE D'ETALONNAGE D'UN LIDAR

Publication

EP 3710861 A1 20200923 (FR)

Application

EP 18812070 A 20181115

Priority

- FR 1760842 A 20171117
- EP 2018081318 W 20181115

Abstract (en)

[origin: WO2019096878A1] The invention relates to a device (1) for calibrating an atmospheric lidar (2) comprising an optical fibre (3) arranged to propagate at least one portion of a beam (5) emitted by the lidar, a reflector element (6) located at one end of the optical fibre and arranged to reflect into the optical fibre one segment (7) of the at least one portion of the beam propagating through the optical fibre; the calibrating device being characterised in that the optical fibre comprises scatterers that are distributed along the optical fibre and that backscatter fractions of the at least one portion of the beam propagating through the optical fibre, and a coupling device (9) arranged to couple into the optical fibre at least one portion (4) of the beam emitted by the lidar, and into the lidar at least one portion (71, 81, 181) of said fractions backscattered by the scatterers, and at least one portion of a beam reflected by the reflector element.

IPC 8 full level

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CPC (source: EP)

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