

Title (en)

ELECTRONIC DISTANCE METER FEATURING SPECTRAL AND SPATIAL SELECTIVITY

Title (de)

ELEKTRONISCHER ENTFERNUNGSMESSER MIT SPEKTRALER UND RÄUMLICHER SELEKTIVITÄT

Title (fr)

TELEMETRE ELECTRONIQUE A SELECTIVITE SPECTRALE ET SPATIALE

Publication

EP 1730546 A1 20061213 (DE)

Application

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Priority

- EP 2005051478 W 20050401
- US 55858004 P 20040402

Abstract (en)

[origin: WO2005096009A1] Disclosed is a distance meter, particularly for telescope arrays in ground-based or space-based applications for detecting surfaces. Said distance meter comprises at least one radiation source for emitting electromagnetic radiation (ES) onto a target that is to be measured, a receiver unit with a sensor (11) for receiving the radiation (S) reflected by the target and deriving distance data, and a first spectral filter component (4). According to the invention, the angular spread of reception of the reflected radiation (S) is limited by means of at least one spatial filter component (6'), especially a fiber laser as a radiation source and receiver component.

IPC 8 full level

G01S 7/481 (2006.01)

CPC (source: EP US)

G01S 7/4812 (2013.01 - EP US); **G01S 7/4818** (2013.01 - EP US)

Citation (search report)

See references of WO 2005096009A1

Citation (examination)

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- JAMES D. BARRIE ET AL: "Simulated Space Environmental Exposure of Optical Coatings for Spacecraft Solar Rejection", APPLIED OPTICS, vol. 41, no. 16, 1 June 2002 (2002-06-01), pages 3150 - 3155, XP055031174, ISSN: 0003-6935, DOI: 10.1364/AO.41.003150

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