

Title (en)

OPTICAL DEVICE FOR MEASURING AT LEAST A PARTIALLY TRANSPARENT MEDIUM THICKNESS

Title (de)

OPTISCHE VORRICHTUNG ZUR MESSUNG DER DICKE EINES MINDESTENS TEILWEISE TRANSPARENTEN MEDIUMS

Title (fr)

DISPOSITIF OPTIQUE DE MESURE DE L'EPAISSEUR D'UN MILIEU AU MOINS PARTIELLEMENT TRANSPARENT

Publication

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Application

EP 05779706 A 20050624

Priority

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- FR 0407493 A 20040706

Abstract (en)

[origin: WO2006013247A1] The inventive optical device (1) for measuring the thickness (e) of a first medium (2) which is at least partially transparent for an incident beam and covers a second medium (3) comprises a laser (5) for generating the light incident beam (4) in such a way that a beam (6) reflected by the first medium (2) surface and a beam (7) scattered by the second medium surface (3) are formed. Said device comprises a photosensitive linear array (8) for detecting the reflected beam (6) and the scattered beam (7) and a processing circuit (9) which is connected to the linear array (8) and enables to measure a space between the reflected beam (6) and the scattered beam (7) and to determine the thickness (e) of the first medium (2) according to the measured space. The processing circuit (9) determines a distance (H) between the linear array (8) and the surface of the second medium (3) from the position (d_{sub}

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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