

Title (en)

AMORPHOUS OPTICAL COUPLING STRUCTURE FOR AN ELECTROMAGNETIC WAVE DETECTOR AND ASSOCIATED DETECTOR

Title (de)

AMORPHE OPTISCHE KOPPLUNGSSTRUKTUR FÜR EINEN ELEKTROMAGNETISCHEN STRAHLUNGSDETEKTOR UND ZUGEHÖRIGER STRAHLUNGSDETEKTOR

Title (fr)

STRUCTURE AMORPHE DE COUPLAGE OPTIQUE POUR DETECTEUR D ONDES ELECTROMAGNETIQUES ET DETECTEUR ASSOCIE

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Application

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Abstract (en)

[origin: WO2004107392A2] The invention relates to an optical coupling structure which is intended to couple electromagnetic radiation to the surface of a photodetector. The invention is characterised in that it comprises a coupling surface which is covered along first and second perpendicular axes with a set of N series (M1i, M2i, , Mni) of first patterns, second patterns, ...nth patterns. According to the invention, the patterns within one series are identical and said patterns are distributed along the first and second axes. Moreover, the distance between the centres of two adjacent patterns and the interreticular distances between two adjacent patterns are variable. The invention also relates to a detector or a laser source comprising said coupling structure. The invention can be used for infrared detection.

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