

Title (en)  
SPECTROMETER

Title (de)  
SPEKTROMETER

Title (fr)  
SPECTROMÈTRE

Publication  
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Application  
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Abstract (en)  
[origin: WO2018189087A1] The invention relates to a spectrometer comprising a housing (11) equipped with a planar optical grating (2), which is arranged opposite an aperture (1) of the housing (11) and which is aligned at an angle of less than 45° to a normal of the aperture (1), a lens assembly (6), and a sensor element (7). The aperture (1) is dimensioned such that electromagnetic radiation incident parallel to the normal of the aperture (1) completely irradiates the surface of the optical grating (2). The lens assembly (6) is arranged between the optical grating (2) and the sensor element (7) in order to focus the electromagnetic radiation onto the sensor element (7) such that solely a first order of diffraction or higher orders of diffraction of the electromagnetic radiation diffracted by the optical grating (2) is directed towards the lens assembly (6) and the sensor element (7).

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