

Title (en)
ATR-SPECTROMETER

Title (de)
ATR-SPEKTROMETER

Title (fr)
SPECTROMÈTRE À RÉFLECTANCE TOTALE ATTÉNUÉE (ATR)

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Application
EP 17751265 A 20170714

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Abstract (en)
[origin: WO2018015316A1] The invention relates to an ATR-spectrometer with an ATR-crystal (1), comprising a section (3) in the form of a truncated cone and two flat surfaces arranged parallel to each other, an emitter (11) designed to emit electromagnetic radiation (13) via one of the surfaces and essentially perpendicularly to said one surface onto the envelope surface (16) of the section (3) in the form of a truncated cone, the envelope surface (16) being designed to reflect the electromagnetic radiation (13) onto the one surface such that the radiation (13) is spread over the two surfaces in the ATR-crystal (1) by multiple reflection, and then coupled out of the ATR crystal (1) by means of a reflection on the envelope surface (16) of the section (3) in the form of a truncated cone, and a detector (12) designed to detect the electromagnetic radiation (13) coupled out of the ATR-crystal.

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G01N 21/552 (2014.01)

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