

Title (en)

ELLISSOMETRY DEVICE PROVIDED WITH A RESONANCE PLATFORM

Title (de)

ELLISSOMETRIEVORRICHTUNG MIT EINER RESONANZPLATTFORM

Title (fr)

DISPOSITIF D'ELLISSOMETRIE A PLATE-FORME DE RESONANCE

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Application

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Abstract (en)

[origin: WO2006008112A1] The invention relates to a useful improvement of an ellipsometer-type device. For this purpose, an existing ellipsometer is supplemented by a so-called resonance platform on which surface modes are excitable. Contrary to state of the art of known surface plasmons, the inventive modes are laterally localised. In addition, the resonance platform is not necessarily embodied in the form of a metal sheet. The inventive device also can be embodied in the form of an image-forming device. The inventive method consists in placing measurable samples on the platform surface and, afterwards, are exposed to light, thereby being excited in modes. The resonance position of modes is determined by the absorption behaviour of a measurable substance.

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