

Title (en)

DEVICE FOR TOPOGRAPHICAL CHARACTERISATION AND CHEMICAL MAPPING OF SURFACES

Title (de)

VORRICHTUNG FÜR TOPOGRAFISCHE CHARAKTERISIERUNG UND CHEMISCHE KARTIERUNG VON OBERFLÄCHEN

Title (fr)

DISPOSITIF DE CARACTÉRISATION TOPOGRAPHIQUE ET DE CARTOGRAPHIE CHIMIQUE DE SURFACES

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Application

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Abstract (en)

[origin: WO2011154877A1] The invention relates to a device for characterising surfaces, characterised in that said device includes: a so-called imaging capillary (C1) for guiding near- or medium-infrared, visible, ultraviolet or X-ray electromagnetic radiation from or towards a surface (SE) to be characterised, said capillary having one so-called front end (EAC1), pointing towards said surface and having an opening having a micrometric or sub-micrometric diameter; and a micromechanical oscillator (DP) for inducing an oscillatory motion of said capillary relative to said surface. The invention further relates to the use of such a device for simultaneously acquiring topographic information and spatially resolved spectroscopic information on a surface to be characterised.

IPC 8 full level

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