

Title (en)

RESISTIVE CANTILEVER SPRING FOR PROBE MICROSCOPY

Title (de)

RESISTIVE CANTILEVERFEDER FÜR SONDENMIKROSKOPIE

Title (fr)

RESSORT EN PORTE-A-FAUX RESISTIF POUR LA MICROSCOPIE PAR SONDE

Publication

**EP 1609164 A1 20051228 (EN)**

Application

**EP 03708379 A 20030313**

Priority

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Abstract (en)

[origin: WO2004070765A1] I A dual- and triple- mode cantilever (10) suitable for simultaneously measuring both normal "adhesion" and lateral "friction" forces independently in three orthogonal directions. The cantilever design allows the measurements to be performed at high sensitivity. The cantilever is useful in Scanning Probe Microscopes "SPM's" and other force-measuring devices, such as the Atomic Force Microscope "AFM", the Friction Force Microscope "FFM", and in probe attachments for the Surface Forces Apparatus "SFA" where both normal and lateral forces acting on a tip need to be accurately and unambiguously measured. The cantilever structure may be used for both resistive and optical detection of tip (13) deflections.

IPC 1-7

**H01J 37/00**

IPC 8 full level

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