

Title (en)

METHOD AND DEVICE FOR MEASURING, CALIBRATING AND USING LASER TWEEZERS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERMESSUNG, KALIBRIERUNG UND VERWENDUNG VON LASER-PINZETTEN

Title (fr)

PROCEDE ET DISPOSITIF POUR MESURER, ETALONNER ET UTILISER DES PINCETTES LASER

Publication

EP 1042944 B1 20020724 (DE)

Application

EP 98966384 A 19981221

Priority

- DE 19757785 A 19971228
- EP 9808370 W 19981221

Abstract (en)

[origin: US6991906B1] To measure or exert optically-induced forces on at least one particle in the focus of an optical cage, the following steps are taken: a) the focus is positioned in a microelectrode arrangement with a three-dimensional electrical field that has a field gradient which forms an electrical capture area, and the focus is at a distance from the capture area and b) the amplitude of the electrical field, the light power of the light beam forming the optical cage, and/or the distance of the capture area from the focus are varied to detect which varied field property moves the particle from the focus to the capture area or vice versa, or at least to temporarily move the particle into the capture area.

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H05H 3/04

IPC 8 full level

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