

Title (en)

METHOD FOR MEASURING VOLUME BY AN OPTICAL SURFACE PROFILOMETER IN A MICROMECHANICAL DEVICE AND A SYSTEM FOR CARRYING OUT SAID MEASUREMENT

Title (de)

VERFAHREN ZUR VOLUMENMESSUNG DURCH EIN OPTISCHES OBERFLÄCHENPROFILOMETER IN EINER MIKROMECHANISCHEN EINRICHTUNG UND SYSTEM ZUM AUSFÜHREN DER MESSUNG

Title (fr)

PROCEDE DE MESURE DE VOLUME PAR PROFILOMETRIE OPTIQUE DE SURFACE DANS UN DISPOSITIF MICROMECHANIQUE ET ENSEMBLE DESTINE A UNE TELLE MESURE

Publication

**EP 1846735 A1 20071024 (FR)**

Application

**EP 06709429 A 20060124**

Priority

- FR 2006050045 W 20060124
- FR 0500748 A 20050125

Abstract (en)

[origin: FR2881222A1] The method involves placing a pumping membrane (133) in two positions, and activating an interferometry for directing light beams on a reference side. The membrane is placed in one of the positions by deformation generated in a mechanical manner so that fluid passage in a pumping chamber is absent. Images of the side are obtained in the respective positions. The images are compared for determining variation of volume of the chamber. An independent claim is also included for an assembly for measuring volume by optical profilometry.

IPC 8 full level

**G01F 22/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

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DOCDB simple family (publication)

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