

Title (en)

DEVICE FOR PHOTOMETRICALLY OR SPECTROMETRICALLY EXAMINING A LIQUID SAMPLE

Title (de)

VORRICHTUNG ZUR PHOTOMETRISCHEN BZW. SPEKTROMETRISCHEN UNTERSUCHUNG EINER FLÜSSIGEN PROBE

Title (fr)

DISPOSITIF POUR L'ANALYSE PHOTOMÉTRIQUE OU SPECTROMÉTRIQUE D'UN ÉCHANTILLON LIQUIDE

Publication

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Application

EP 11813650 A 20111215

Priority

- AT 20772010 A 20101215
- AT 2011000497 W 20111215

Abstract (en)

[origin: WO2012079103A2] The invention relates to a device (1) for photometrically or spectrometrically examining a liquid sample (2), comprising a cuvette (3, 3'), which can be arranged in the beam path between a radiation source (4) and a radiation detector (5) and which accommodates the liquid sample (2) to be examined, a radiolucent inlet section (6) for coupling in radiation (20) produced by means of the radiation source (4), which radiation interacts with a sample volume (8), and a radiolucent outlet section (7) for coupling out radiation (20'') intended to be detected in the radiation detector (5), wherein the inlet section (6) has an inlet surface (11) convexly curved in such a way and/or the outlet section (7) has an outlet surface (12, 12') spherically convexly curved in such a way that the incident radiation (20, 20') is focused in the manner of a converging lens.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2012079103A2

Citation (examination)

- DE 3424108 A1 19860109 - SCHRADER BERNHARD PROF DR ING
- EP 2249143 A1 20101110 - MITSUI SHIPBUILDING ENG [JP]
- WO 2010036736 A2 20100401 - VARIAN INC [US], et al
- DE 3306763 A1 19830915 - VARIAN ASSOCIATES [US]
- CH 458790 A 19680630 - CESKOSLOVENSKA AKADEMIE VED [CZ]
- DE 1814614 A1 19691204 - MERESTECHNICAL KOEZPONTI KUTAT
- US 2010265492 A1 20101021 - SCHROEDER ROBERT [US], et al

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