

Title (en)
ANALYTIC PROCESS USING POROUS SILICON TO DETECT A SUBSTANCE OR DETERMINE THE CONCENTRATION OF A SUBSTANCE IN SOLUTIONS AS WELL AS AN ANALYTIC DEVICE FOR SUCH A PROCESS

Title (de)
ANALYSEVERFAHREN UNTER VERWENDUNG VON PORÖSEM SILICIUM ZUR ERFASSUNG EINER SUBSTANZ ODER DER KONZENTRATION EINER SUBSTANZ IN LÖSUNGEN SOWIE EINE ANALYSEEINRICHTUNG FÜR EIN SOLCHES VERFAHREN

Title (fr)
PROCEDE D'ANALYSE AU MOYEN DE SILICIUM POREUX POUR DETECTER UNE SUBSTANCE OU DETERMINER SA CONCENTRATION DANS DES SOLUTIONS AINSI QUE DISPOSITIF D'ANALYSE POUR METTRE EN OEUVRE LEDIT PROCEDE

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Abstract (en)
[origin: DE19608428A1] In an analytic process using porous silicon, a substance is detected or its concentration in a fluid is determined, based on the change in optical properties of porous silicon as a function of the index of refraction of the substance or of the fluid containing the substance present in the pores of the porous silicon. An analytic device using porous silicon to detect a substance or determine the concentration of a substance in a fluid consists of a component which is at least partly made of porous silicon, the optical property of which is dependent on the index of refraction of the substance or of the fluid containing the substance, where a change in the optical property of porous silicon can be measured to indicate detection of the substance or to determine the concentration in the pores of the porous silicon.

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