

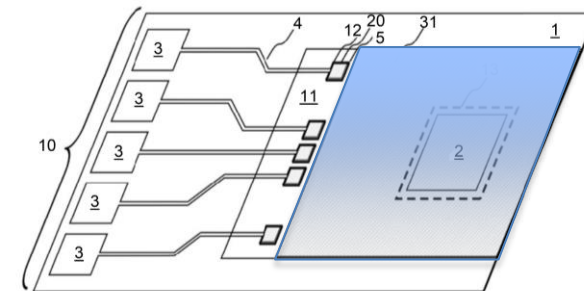
CHEMICAL SENSOR, FABRICATION PROCESS AND ITS USE IN pH MEASUREMENT IN MICROFLUIDICS SYSTEMS



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Introduction

Currently, chemical processes that use water as substance for chemical reactions are very common. In such processes, it is important to obtain parameters of water quality, in order not to interfere with chemical reaction results. In this regard, this invention shows chemical sensors, which are used to measure pH in liquid medium, organized on a substrate where there is a hole through which the sensor comes into contact with the liquid medium whose purpose is to know the liquid's chemical properties. In addition, this invention also introduces a method of manufacturing chemical sensor in which chip is electrically connected to the substrate by welding.

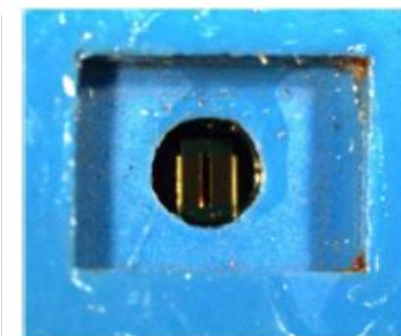
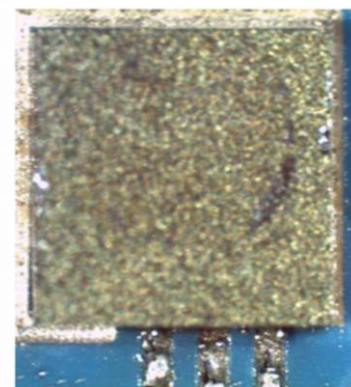


Purposes

This technology aims to solve persistent technique stated problems by developing a sensor to measure chemical properties. In which, chip's electrical contacts are sealed, and the sensitive region, in its turn, will be covered and protected during the whole device's manufacturing process. As a consequence, errors in reagents' dosage are avoided.

Application and Target Markets

This invention covers the interest of chemical, pharmaceutical, environmental, medical and agricultural business sectors.



Development Stage



. Source: The Authors

Field: Health and Care

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