

An Electrochemical Detector



Health & Wellness

Sensors

Testing Instruments

Opportunity

Food poisoning is one of the world's most serious public health issues. Various harmful additives in food or dirt Dye object may have an impact on public health. As a result, it is necessary to inspect the quality of food on a regular basis to ensure that some poisonous and harmful substances do not exceed the Cross safe class.

The concentration of these harmful substances can be determined by using testing agent. The traditional chemical test method is time consuming and may not respond promptly. Alternatively, while laboratory material characterization technology is highly accurate and sensitive, these technologies may not be suitable for everyday use. The present invention provides a cost-effective, accurate, and reliable method for detecting substance concentration.

Technology

The present invention relates to a kind of electromagnetic detectors, although not exclusively, being related to a kind of detector for detecting plasticizer.

The invention discloses a kind of electrochemical detectors, which includes chemical receptors arranged to interact with other chemical substance which is in contact with the substance selection structure. The substance selection structure may generate an electrical signal or change an electrical characteristic of the electronic device structure upon the interaction of the target substance.

Advantages

- The present invention is by providing in the adjacent place of ppb levels Improved detection limit, and provide the improvement relative to traditional device.

Applications

- Detection is harmful or toxic substance (such as plasticizer).
- It is to be expected that in portable electronic device and hand-held sensor, (it can With in application at home).
- The chemical stability of analytical solution, which (is not deposited, to be ensured to the low voltage operating of electrochemical sensor It is decomposed in induction).

IP Status

Patent granted



Technology Readiness Level (TRL) ?

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