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seeks partner to license

Sensor using Long Range Surface Plasmon Resonance with Diffraction Double-Grating

The University of Toledo is seeking companies and research organizations interested in licensing technology relating to a sensor having a diffraction double-grating employing long range surface plasmon resonance sensor for use in biological, biochemical or chemical testing. Specifically, the invention relates to use in monitoring the interaction of antibodies with their corresponding antigens. The technology includes a double-grating structure located between two dielectric mediums, which a beam of electromagnetic radiation is introduced into the second dielectric medium in a manner that causes long range surface plasmon resonance to occur such that the beam of radiation suffers attenuated total reflection. The characteristics of the resonance dependant upon the reaction between the sample and the sensitive layer are then detected.

Application:

Biological, biochemical and chemical testing.

Advantages:

Improves the sensitivity of the basic surface plasmon resonance sensor utilizing long range surface plasmon resonance.

Protected by issued patent:

5,846,843

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