

**ABSTRACT****PIEZOELECTRIC IMMUNOSENSOR**

The present invention provides a method for the detection and quantitation of antigen, and apparatus for performing the same. The apparatus according to one aspect includes an immunosensor which uses a piezoelectric (Pz) crystal microbalance having a self-assembled monolayer. According to another aspect, an antigen-specific antibody is covalently coupled to the electrodes of the crystal. In one embodiment, the antigen is human IgE which may be detected using the immunosensor having a Quartz Crystal Microbalance (QCM).

FIGURE 2

This Sheet Has Been Replaced

