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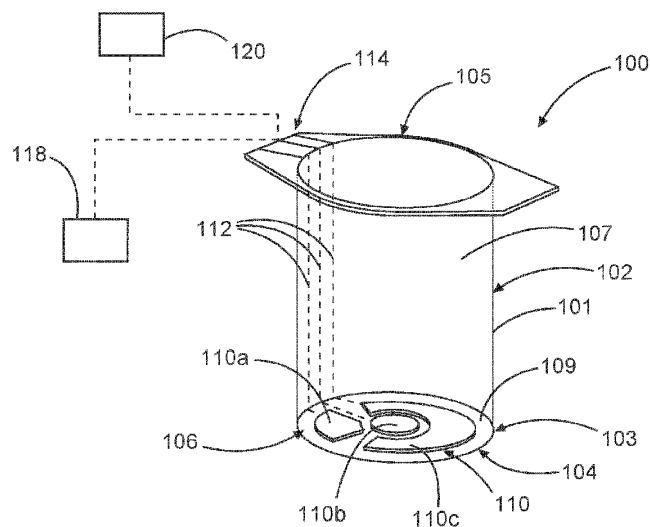


Fig. 1

(57) Abstract: A sensor device for an aerosol exposure system for in-vitro exposure of a cell culture to a test atmosphere is described. The sensor device comprises a measurement compartment configured to receive a receptor element of an electrochemical sensor for detecting one or more constituents of the test atmosphere. The sensor device further comprises a receptor support arranged at an end of the measurement compartment and configured to support the receptor element of the electrochemical sensor. The sensor device further comprises a transducer element functionally couplable to the receptor element and configured to provide an electronically processable signal indicative of the one or more constituents in the test atmosphere.

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