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(54) Title: A SYSTEM AND METHOD FOR ENUMERATING MICROORGANISMS

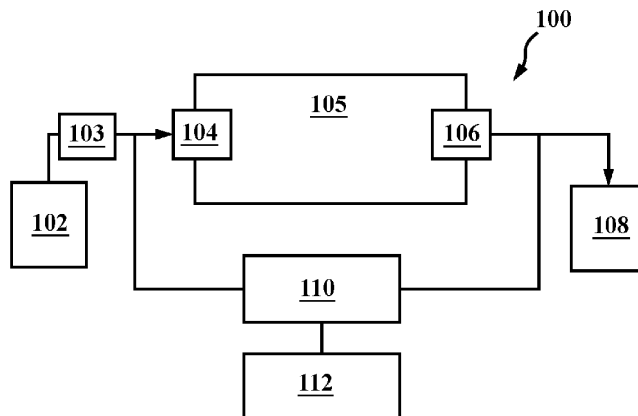


Figure 1

(57) Abstract: This document describes a system and method for enumerating a concentration of microorganism in a liquid sample. The disclosed system has a filtration medium that has an inlet for receiving the liquid sample and an outlet for removing a filtered liquid sample from the filtration medium. A differential pressure sensor having a first port connected to the inlet of the filtration medium and a second port connected to the outlet of the filtration medium is also provided in this system and the differential pressure sensor is configured to measure a pressure difference between the inlet and outlet of the filtration medium over a period. The system also has a computing module that is communicatively connected to the differential pressure sensor whereby the computing module is configured to enumerate the concentration of the microorganism in the liquid sample based on the measured pressure difference over the period and a pre-generated calibration model.

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