

**MICROORGANISM QUANTITY MEASUREMENT CELL AND
MICROORGANISM QUANTITY MEASUREMENT DEVICE COMPRISING
SAME**

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ABSTRACT

A measurement cell (1) comprises a measurement chamber (6); an inflow aperture (7) through which a sample liquid flows into the measurement chamber (6); an outflow aperture (8) through which the sample liquid flows out of the measurement chamber (6); a measurement electrode (12) which is provided in the measurement chamber (6) at a position toward the outflow aperture (8), traps
10 microorganisms contained in the sample liquid that flows in the measurement chamber (6), and to which a measurement AC voltage is applied for measuring the quantity of the microorganisms; a concentration electrode (21a) which is provided in the measurement chamber (6) at a position toward the inflow aperture (7), and to which a concentration-use AC voltage is applied for imparting a repulsive force that guides the microorganisms contained in the sample liquid to the measurement electrode (12) side; and
15 insulators (20a, 20b) which are provided on the concentration electrode (21a), and on which is formed an electrical field convergence unit (22) that produces a repulsive force in a portion of the insulators when the concentration-use AC voltage is applied to the concentration electrode (21a).

FIGURE 5