

CULTURE DEVICE

ABSTRACT

A culture device that cultures a microorganism or a cell that uses a raw material gas containing a combustible gas for proliferation or production of an organic substance includes a culture tank that accommodates a culture solution for culturing the microorganism or the cell, a raw material gas supply unit that supplies the raw material gas to the culture tank, a gas circulation path for reusing a mixed gas in a space above a liquid surface of the culture solution in the culture tank as the raw material gas, and a pressure applying device that is disposed on the gas circulation path and applies a circulation pressure to the mixed gas to circulate the mixed gas, in which the pressure applying device does not have a mechanical movable part, and applies the circulation pressure to the mixed gas by a drive fluid input to the pressure applying device.

[Fig. 23]