

CULTURE DEVICE AND METHOD FOR CONTROLLING CULTURE DEVICE

ABSTRACT

A culture device for culturing a microorganism or a cell that uses a raw material gas containing a flammable gas for proliferation or for production of an organic substance includes: a culture tank that accommodates a culture solution in which the microorganism or the cell is cultured; a raw material gas supply unit that supplies the raw material gas to the culture tank; a composition ratio measurement unit that measures a composition ratio of a mixed gas in a space present above a liquid surface of the culture solution in the culture tank; and a composition ratio control mechanism that supplies an adjustment gas to the space according to the measured composition ratio of the mixed gas, thereby maintaining the composition ratio of the mixed gas in the space at a target value outside a preset explosion range.

Figure 2