

ABSTRACT

The present disclosure relates to a gas mixing supply device, a mixing system, and a gas mixing supply method, and more particularly, to a gas mixing supply device, a mixing system, and a gas mixing supply method for more efficiently supplying a supply gas to a gas-based apparatus. A gas mixing supply device according to the present disclosure includes a mixing system configured to supply a supply gas, in which a plurality of types of gases are mixed, to a tank, and a supply system configured to supply the supply gas stored in the tank to a gas-based apparatus, wherein the mixing system includes a first vent line and a second vent line that are branched off from a mixing gas supply line configured to allow the supply gas to flow to the tank and are connected to an external unit, and a mixing gas concentration analysis unit and a mixing gas pressure measurement unit configured to measure a concentration and a pressure, respectively, of the supply gas flowing through the second vent line, and the controller controls the supply gas flowing through the mixing gas supply line to flow to one of the tank and the first vent line according to the measured concentration and pressure of the supply gas.

Fig. 2