

ABSTRACT

METHOD OF PARALLEL RUN OF REACTION FURNACE FOR MOISTURE GENERATION

According to the present invention, the need to increase the amount of high-purity water supply is met by allowing a plurality of moisture generating reactors to perform a parallel operation by allowing mixed gas consisting of H_2 and O_2 to branch off and be supplied by using a very simple orifice, which makes it possible to simplify the mixed-gas (source-gas) flow-dividing apparatus and to greatly reduce equipment costs.

In other words, the method for parallel operation of moisture generating reactors according to the present invention operates so that an orifice, provided with an orifice hole having a predetermined opening diameter, is disposed on a mixed-gas inlet side of each of a plurality of moisture generating reactors connected in parallel with each other, and mixed gas G consisting of hydrogen and oxygen is supplied from a mixer to each of the moisture generating reactors through each orifice, and the flows of moisture generated by the moisture generating reactors are combined, and the resulting combined moisture is supplied to an apparatus using high-purity water.

Figure 1.