

ABSTRACT

A burner device (S1) that burns a mixture gas of an oxidant and a fuel includes a partition member (8) which air- permeably partitions an ignition region (R2) for igniting the mixture gas (Y) and a flame retaining region (R3) for maintaining the combustion of the mixture gas (Y), and which also adjusts the flow speed of the mixture gas (Y) supplied from the ignition region (R2) to the flame retaining region (R3), in which the partition member (8) includes a protrusion portion (8a1) that protrudes into an oxidant flow passage (1) and that stops a part of the oxidant flowing through the oxidant flow passage (1) to guide it into a take-in passage region (R1). According to the burner device (S1), with a sufficient amount of oxidant being supplied to a combustion region, it is possible to stabilize a combustion state of the mixture gas and, moreover, to stably produce a high-temperature gas.

