

COMBUSTION DEVICE, COMBUSTION METHOD, AND COMBUSTION PROGRAM

ABSTRACT

A circulating fluidized bed (CFB) boiler is a combustion device that supplies a fuel into a furnace 11 in which a fluid material containing silica (SiO_2) flows and that combusts the fuel, the combustion device including: an earth metal supply unit 85 that supplies an alkaline earth metal (magnesium, calcium, or the like) and/or an earth metal (aluminum or the like) such that a ratio of the alkaline earth metal and/or the earth metal to an alkali metal (sodium, potassium, or the like) in the furnace 11 exceeds a predetermined lower limit; and a fluid material supply unit 15 that supplies the fluid material to which the alkaline earth metal and/or the earth metal supplied by the earth metal supply unit 85 has been added into the furnace 11.

Figure 1