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ABSTRACT

PULSE COMBUSTOR

A pulse combustor realizing stable pulse combustion with reduced noise and vibration includes: a combustion chamber (1); a mixing chamber (3) coupled with the intake side of the combustion chamber (1) via a first opening (10) provided with a frame trap (11); and an air chamber (4) connecting to the mixing chamber (3) via a second opening (6). The second opening (6) is eccentric with respect to the first opening (10). The fuel gas and air are simultaneously supplied through the second opening (6) to the mixing chamber (3), sufficiently mixed in the mixing chamber, and fed into the combustion chamber (1). The exhaust gas flowing back through the frame trap (11) is diluted with the air/fuel mixture in the mixing chamber and again fed into the combustion chamber (1) for continuous combustion while the reverse pressure is efficiently reduced by the mixing chamber (3) and the air chamber (4).

FIGURE 1