

ABSTRACT

A fuel nozzle, comprising an inlet for receiving fuel and an outlet for discharging fuel. The outlet intersects a longitudinal centerline of the nozzle and produces a skewed spray pattern. A fuel injector having a fuel nozzle outlet such that a fluid discharged from a swirler produces a crescent-shaped spray pattern in the fuel. A burner section of a gas turbine engine comprising a combustion chamber and fuel injectors. At least one of the fuel injectors produces a skewed flame pattern in the combustion chamber that overlaps with a flame pattern from an adjacent fuel injector. A method of improving stability of a flame in a burner section of a gas turbine engine in which at least one of the fuel injectors produces a skewed flame pattern in the burner section to create a fuel non-uniformity, the flame pattern also overlapping with an adjacent flame pattern.

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