ABSTRACT

FUEL DELIVERY

The present application discloses a gas turbine engine (10) for an aircraft (1), comprising:
a staged combustion system (64) having pilot fuel injectors (313) and main fuel injectors (314), the staged combustion system (64) being operable in a pilot-only range of operation and a pilot-and-main range of operation; and a fuel delivery regulator (306) arranged to control delivery of fuel to the pilot and main fuel injectors (313, 314). The fuel delivery regulator (306) is arranged to receive fuel from a first fuel source (302) containing a first fuel having a first fuel characteristic and a second fuel source (304) containing a second fuel having a second fuel characteristic, the second fuel characteristic being different from the first. The fuel delivery regulator (306) is arranged to deliver fuel to the pilot fuel injectors (313) during at least part of the pilot-only range of operation having a different fuel characteristic from fuel delivered to one or both of the pilot and main fuel injectors (313, 314) during at least part of the pilot-and-main range of operation. A method (4000) of operating a gas turbine engine (10) is also disclosed.

[Figure 5]