

Title (en)
FUEL LANCE

Title (de)
BRENNSTOFFLANZE

Title (fr)
LANCE À COMBUSTIBLE

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Application
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Abstract (en)
[origin: WO2007051705A1] The invention relates to a lance (3) for introducing a fuel into a mixing path (2) of a burner (1), in particular of a turbine plant, which is provided with a swirl generator for generating a swirling combustion air flow, comprising a lance head (5), a fuel supply (8) and an oxidant supply (10). According to the invention, the lance head (5) projects into the mixing path (2), has at least one fuel nozzle (6) for injecting the fuel into the mixing path (2) and has at least one oxidant outlet opening (7) for introducing an oxidant into the mixing path (2). The fuel supply (8) runs in the lance (3) and is connected to the at least one fuel nozzle (6). The oxidant supply (10) runs in the lance head (5) and is connected to the at least one oxidant outlet opening (7). In order to improve the operation of the burner (1), the at least one oxidant outlet opening (7) is arranged centrally on the lance head (5), and the at least one fuel nozzle (6) is arranged on the lance head (5) so as to be offset radially outward in relation to the at least one oxidant outlet opening (7).

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