

Title (en)

Fuel injector for liquid and/or gaseous fuels and method for its operation.

Title (de)

Brennstofflanze für flüssige und/oder gasförmige Brennstoffe sowie Verfahren zu deren Betrieb.

Title (fr)

Injecteur de combustible pour des combustibles liquides et gazeux et procédé de sa mise en oeuvre.

Publication

EP 0638769 A3 19950816 (DE)

Application

EP 94110938 A 19940714

Priority

DE 4326802 A 19930810

Abstract (en)

[origin: EP0638769A2] In a fuel lance (injector) for liquid and/or gaseous fuels for use in a combustion chamber, good fuel injection is achieved by means of (a) a liquid-fuel tube (7) which extends along a lance axis (5) and which surrounds a liquid-fuel passage (6) for carrying a liquid fuel; (b) a gas tube (9) which surrounds the liquid-fuel tube (7) and which, between itself and the liquid-fuel tube (7), forms a gas passage for carrying a gaseous fuel; (c) a lance casing (11) which surrounds the gas tube (9) and which forms between itself and the gas tube (9) an air duct (10) for carrying cooling or atomization air; (d) at least one air/fuel nozzle (12) provided at the downstream end of the fuel lance (1) in the casing (11) of the latter, through which nozzle air can flow out of the air passage (10) into the combustion chamber surrounding the fuel lance (1); there being arranged in the gas tube (9) at least one gas nozzle (15), through which gas can flow out of the gas passage (8), through the air passage (10) and the air/fuel nozzle (12) or nozzles into the combustion chamber with the air; and (f) each air/fuel nozzle (12) is assigned in the liquid-fuel tube (7) a liquid-fuel nozzle (18) through which liquid fuel can flow out of the liquid-fuel passage (6), through the air passage (19) and the associated air/fuel nozzle (12), into the combustion chamber with the air. <IMAGE>

IPC 1-7

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CPC (source: EP US)

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Citation (search report)

- [XA] GB 2021254 A 19791128 - LUCAS INDUSTRIES LTD
- [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 35 (M - 276)<1472> 15 February 1984 (1984-02-15)

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