

Title (en)

Fuel injector for injecting liquid and/or gas fuels in a combustion chamber

Title (de)

Brennstofflanze zum Eindüsen von flüssigen und/oder gasförmigen Brennstoffen in eine Brennkammer

Title (fr)

Injecteur de combustible pour l'injection de combustibles liquides et/ou gazeux dans une chambre de combustion

Publication

**EP 1030109 B1 20040407 (DE)**

Application

**EP 00810118 A 20000210**

Priority

DE 19905996 A 19990215

Abstract (en)

[origin: EP1030109A1] Liquid and/or gas-form fuel is injected into a combustion chamber by a fuel lance (10), involving a first guide tube (23) for the radial injection of fuel out of a liquid fuel channel (17) into the combustion chamber. The guide tube runs outwards through a gas channel (15) and an air channel (13). A second guide tube (21) runs outwards in a radial direction from the gas channel through the air channel. The second guide tube concentrically encloses the first guide tube spaced from it. Both guide tubes issue in the area of a lance cover (12) aperture (22) so that the liquid fuel emerging from the first guide tube forms a plain jet and the fuel jets from both tubes are surrounded cover-wise by air flowing from the air channel.

IPC 1-7

**F23D 17/00**; F23D 11/10; F23D 14/22

IPC 8 full level

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CPC (source: EP US)

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Cited by

DE10050285A1; DE10050285C2; EP2199674A1; EP2211110A1; US8938968B2; WO2019185232A1; EP1207350A2; US6688111B2; US8522527B2; EP2116766A1; US9097426B2

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