

Title (en)

PROCESS AND DEVICE FOR THE PRODUCTION OF AN INFLAMMABLE GASEOUS MIXTURE OF LIQUID FUEL, WATER VAPOUR AND COMBUSTION AIR

Publication

EP 0256451 B1 19891206 (DE)

Application

EP 87111466 A 19870807

Priority

DE 3626933 A 19860808

Abstract (en)

[origin: EP0256451A1] 1. Device for producing a gas mixture containing fuel vapour and water vapour which is combustible after the addition of combustion air, with an evaporator (6) for the liquid fuel downstream of which is a mixing chamber (3) for producing the combustible gas mixture and a combustion chamber (2), the evaporator (6) consisting of a first region (7) with a water-vapour generator in the form of a coiled tube and a second region (8) with a fuel evaporator which is co-axial with the water-vapour generator, formed as a coiled tube and has a fuel supply line, and a preheating chamber (15) for combustion air, characterized in that the preheating chamber (15) has a combustion air supply line (16) to the mixing chamber (3), in that the evaporator (6) is located in the exhaust gas duct of the combustion chamber (2), in that the second region (8) of the evaporator (6) is downstream of the first region (7), and in that a fuel-vapour/water-vapour line (12) leads from the second region (8) to the mixing chamber (3).

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F23D 11/44

IPC 8 full level

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