

Title (en)

Method of reforming fuel, fuel-reforming apparatus and thermal engine

Title (de)

Verfahren zur Reformierung von Brennstoff, Brennstoffreformiervorrichtung und Wärmekraftmaschine

Title (fr)

Méthode de réformation de carburant appareil de reformage de carburant et moteur thermique

Publication

EP 0791745 A1 19970827 (EN)

Application

EP 96102728 A 19960223

Priority

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- CA 2171419 A 19960308

Abstract (en)

Primal object of the invention is to drastically decrease volume of carbon monoxide, hydrocarbon, nitrogen oxide and carbon dioxide (total volume) exhausted from conventional thermal engines such as internal-combustion engines and from boilers in particular as a result of combustion of fuel therein, and yet, enable them to significantly save fuel and promote output power. To achieve the above object, the invention provides a novel method of reforming fuel, an improved fuel-reforming apparatus and an improved thermal engine. Concretely, a plurality of ceramics balls (16) mainly composed of silicon are disposed in a liquid-fuel tank (10) and a fuel-reforming apparatus (38) so that they can be immersed in fuel (28). If deemed necessary, the fuel tank (10) is internally provided with a microbe addition means (26) for adding microbial additive (24) to fuel (28) stored in the fuel tank (10), or the fuel tank (10) is internally provided with a stirring means (20 and 22) for stirring fuel (28), or the internal surface of a fuel tank (12) is coated with ceramics (14) mainly composed of silicon, or the fuel tank (12) is internally provided with ceramics balls (18) at least containing radioactive material so that they can be immersed in fuel (28). At least part or whole of internal and external surfaces of fuel-supply system for supplying liquid fuel or vaporized fuel to a thermal engine (46) and part or whole of internal and external surfaces of air-intake system (50) and exhaust system (52) thereof is covered with ceramics (16) mainly comprising silicon, or part of said systems is respectively filled with said ceramics (16). <IMAGE>

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