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(54) **Engine system**

(57) An engine system in which either hydrogen produced from a hydrogen containing medium in terms of reaction using a catalyst or a mixture of the hydrogen and the hydrogen containing medium is employed as a fuel, in order to restrict heat deformation of a reactor, the engine system (100) including a reactor (1) configured to cause a reaction using a catalyst, in which the reactor (1) is constituted by alternately disposing plural exhaust passages (52) and plural fuel passageways (51) of the engine system with a wall interposed therebetween; at least one carrier (61) configured to carry the catalyst and to be formed in a substantially rectangular plate shape is fitted in at least one of fuel passageways (51); and the carrier (61) is provided with a plate portion (65) which has a surface disposed in a fuel flowing direction and is formed in a substantially rectangular plate shape and at least one slit portion (63) which divides the surface of the plate portion (65) in the fuel flowing direction.

FIG.4

