

Title (en)

Compression self-ignition internal combustion engine and fuel supply device therefor

Title (de)

Brennkraftmaschine mit Selbstzündung und Brennstoffzuführeinrichtung

Title (fr)

Moteur avec auto-allumage et dispositif de prélèvement de combustible

Publication

EP 1174604 A2 20020123 (EN)

Application

EP 01117479 A 20010719

Priority

JP 2000219548 A 20000719

Abstract (en)

A compression self-ignition internal combustion engine in which combustion of air-fuel mixture in a combustion chamber is made upon self-ignition of the air-fuel mixture under compression by a piston. A high temperature air-fuel mixture field is formed in the combustion chamber, and has a fuel concentration which causes no self-ignition within the combustion chamber. A mixture charge injector is disposed to supply to the air-fuel mixture field a mixture charge which has a fuel concentration higher than that in the air-fuel mixture field and contains fuel and a fluid containing air, at least a part of the fuel being vaporized. <IMAGE>

IPC 1-7

F02B 3/06

IPC 8 full level

F02B 1/12 (2006.01); **F02B 3/06** (2006.01); **F02B 7/00** (2006.01); **F02B 23/10** (2006.01); **F02D 41/02** (2006.01); **F02D 41/38** (2006.01); **F02D 41/40** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

F02B 3/06 (2013.01); **F02B 23/101** (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1174604 A2 20020123; **EP 1174604 A3 20030326**; **EP 1174604 B1 20080102**; DE 60132137 D1 20080214; DE 60132137 T2 20080515; JP 2002030935 A 20020131; JP 3642011 B2 20050427

DOCDB simple family (application)

EP 01117479 A 20010719; DE 60132137 T 20010719; JP 2000219548 A 20000719