

Title (en)

HIGH-PRESSURE STRATIFICATION AND SPARK IGNITION DEVICE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

HOCHDRUCKSCHICHTUNG UND FREMDZÜNDUNGSVORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF D'ALLUMAGE PAR ÉTINCELLE ET STRATIFICATION HAUTE-PRESSION POUR MOTEUR À COMBUSTION INTERNE

Publication

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Application

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Priority

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Abstract (en)

[origin: CA2863474A1] The present invention relates to a high-pressure stratification and spark ignition device (2) for an internal combustion engine (1), including: a stratification valve (20) closing a stratification channel (23) that leads into a stratification antechamber (79), said channel also leading into a stratification chamber (24) connected to the combustion chamber (S) of the internal combustion engine (1) via a stratification injection pipe (39), wherein said channel opens in the vicinity of protruding electrodes (26) of a spark plug (25), said electrodes being positioned in said combustion chamber; a stratification actuator (27), which lifts the stratification valve (20); a stratification manifold (28) connecting the stratification antechamber (79) to the outlet of a stratification compressor (21); a stratification fuel injector (33); and a means (40) for recirculating pre-cooled exhaust gases.

IPC 8 full level

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