

Title (en)
INTERNAL COMBUSTION ENGINE

Title (de)
BRENNKRAFTMASCHINE

Title (fr)
MACHINE À COMBUSTION INTERNE

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Application
EP 09756322 A 20091124

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Abstract (en)
[origin: WO2010063615A1] The invention relates to an internal combustion engine that comprises at least one combustion chamber (15), which can be closed by an intake valve (17), at least one air intake channel (21), which leads to the intake valve (17), and a fuel injection device (27), which in association with the at least one combustion chamber (15) has a first and a second injection valve (28, 29) for injecting fuel into at least one intake channel (21) in a metered manner. In order to achieve a significantly improved mixture preparation and combustion of the fuel-air mixture in the combustion chamber (15), the two injection valves (28, 29) are designed so that the first injection valve (28) sprays a widely spread spray cone (34) having a large cone angle and the second injection valve (29) sprays an only slightly spread spray cone (35) having a significantly smaller cone angle.

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