

Title (en)
COMBUSTION AIR DUCT OF AN INTERNAL COMBUSTION ENGINE

Title (de)
VERBRENNUNGSLUFTLEITUNG EINER BRENNKRAFTMASCHINE

Title (fr)
TUBULURE D'AIR DE COMBUSTION D'UN MOTEUR A COMBUSTION INTERNE

Publication
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Application
EP 95933384 A 19950918

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Abstract (en)
[origin: WO9609469A1] A combustion air duct of the known type has a complex shape and is accordingly costly to manufacture. Furthermore, the conventional design does not produce optimal flow characteristics. The present invention solves the problem of producing an internal combustion engine with a charge duct (1) which does not have these drawbacks and in addition ensures a nearly oil-free delivery of combustion air to individual cylinders. This is achieved by providing the charge duct (1) at its lowest point with an oil trap in the form of a sump (16). This ensures that the oil carried in the combustion air and deposited by precipitation during its passage through the charge duct (1) on the duct walls collects in the sump (16) underneath the charge duct (1). The collected oil can then be drawn off in the appropriate form and fed back into the engine's oil circulation system.

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