

Title (en)

AIR DISTRIBUTOR FOR THERMAL COMBUSTION ENGINES

Title (de)

LUFTVERTEILER FÜR WÄRMEKRAFTMOTOREN

Title (fr)

RÉPARTITEUR D'AIR POUR MOTEURS À COMBUSTION THERMIQUE

Publication

**EP 3997326 A1 20220518 (FR)**

Application

**EP 20750330 A 20200708**

Priority

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Abstract (en)

[origin: WO2021009441A1] The invention relates to an air distributor (1) intended to be attached to a cylinder head of a thermal combustion engine, the air distributor (1) comprising an intake port (5) opening into an internal space (4) of the air distributor (1) and a plurality of outlet pipes (21-24) each intended to connect the internal space (4) to a respective cylinder of the engine, characterised in that the air distributor (1) comprises: - a main body (2) defining the intake port (5) and, at least partially, the internal space (4) and the plurality of outlet pipes (21-24), - an internal cover (3) at least partially defining the plurality of outlet pipes (21-24), the internal cover (3) being attached to the main body (2) by mechanical attachment means, and - a single piece open-work structure (10) arranged between the main body (2) and the internal cover (3), the open-work structure (10) being configured firstly to ensure gas-tightness between the air distributor (1) and the engine cylinder head, as well as between the outlet pipes (21-24), and secondly to contribute to mechanically holding the internal cover (3) and the main body (2) together.

IPC 8 full level

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