

Title (en)
INTAKE SYSTEM WITH AIR FILTER

Title (de)
ANSAUGSYSTEM MIT LUFTFILTER

Title (fr)
SYSTEME D'ASPIRATION POURVU D'UN FILTRE A AIR

Publication
EP 1224389 B1 20070822 (DE)

Application
EP 00964273 A 20001005

Priority
• DE 19951408 A 19991026
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Abstract (en)
[origin: US2003034004A1] An air intake system for intake air of an internal combustion engine comprising a filter insert (19) in a housing (10) connected to the air conducting system by a plurality of inlets (13) and an outlet (22). The air inlets are provided with individual intake nozzles or fittings and lead to a single common air chamber (20) in the filter housing. The inlets (13) can be individually opened and closed by flap valves (24), thereby allowing the acoustics to be influenced favorably and enabling, for example, the respective intake fittings to be connected or disconnected depending on the temperature. The intake system requires only a limited number of components, and the design of the preferably wedge-shaped air chamber minimizes flow losses in the housing, which in turn decreases the intake noise. Shunt resonators (28) can also be formed using cover elements (29) and (30).

IPC 8 full level
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Citation (examination)
• US 4826517 A 19890502 - NORMAN PETER J [CA]
• DE 19717196 A1 19981029 - MANN & HUMMEL FILTER [DE]

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