

Title (en)
INTAKE PIPE HAVING AN INTEGRATED INTERCOOLER

Title (de)
SAUGROHR MIT INTEGRIERTEM LADELUFTKÜHLER

Title (fr)
TUBE ASPIRANT AVEC REFROIDISSEUR D'AIR DE SURALIMENTATION INTÉGRÉ

Publication
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Application
EP 11804557 A 20111220

Priority
• DE 102010063602 A 20101220
• EP 2011073488 W 20111220

Abstract (en)
[origin: WO2012085008A1] The invention relates to an intake pipe for an internal combustion engine of a motor vehicle, comprising a housing (10) that defines a charge-air channel and an intercooler (12) having a cooler block (16), which is arranged in the housing (10) in such a way that the charge air can flow through the cooler block. The cooler block (16) of the intercooler (12) terminates on a side facing the housing (10) with an outer component, preferably a cooling fin (22), and at least one recess (38) is formed in said outer component (22) of the cooler block (16), the at least one recess extending at least across part of the length of the cooler block (16) substantially perpendicularly to the charge-air flow direction (L). Furthermore, at least one projection (36) is provided on an inside face of the housing (10) facing the cooler block (16) of the intercooler (12), said projection extending at least across part of the inner face of the housing (10) substantially perpendicularly to the charge-air flow direction (L) and engaging at least partially in the at least one recess (38) of the cooler block (16) in a sealing manner.

IPC 8 full level
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CPC (source: EP KR US)
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Citation (search report)
See references of WO 2012085008A1

Citation (examination)
• EP 2470761 A1 20120704 - BEHR GMBH & CO KG [DE]
• US 2005061026 A1 20050324 - CHOI JAE SIK [KR]

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