

Title (en)  
PIPE

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Publication  
**EP 2611999 A1 20130710 (DE)**

Application  
**EP 11743782 A 20110810**

Priority  
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Abstract (en)  
[origin: WO2012028250A1] A pipe, in particular in the air supply system of internal combustion engines which are provided, in particular, with an intake system and/or control electronics, is described, wherein the internal pipe and/or the internal pipe surface (1) have/has at least one element (1, 5, 6) which changes the diameter (2) of the internal pipe and/or the cross-sectional area of the internal pipe.

IPC 8 full level  
**F01N 3/025** (2006.01); **F01N 3/20** (2006.01); **F16K 15/14** (2006.01)

CPC (source: EP US)  
**F01N 3/025** (2013.01 - EP US); **F01N 3/2033** (2013.01 - EP US); **F16L 55/02754** (2013.01 - US); **F16L 55/134** (2013.01 - EP US); **F23L 3/00** (2013.01 - EP US); **F23N 5/245** (2013.01 - EP US); **F01N 2240/14** (2013.01 - EP US); **F23N 2225/20** (2020.01 - EP US); **F23N 2231/28** (2020.01 - EP US); **F23N 2235/06** (2020.01 - EP US); **Y02T 10/12** (2013.01 - EP US); **Y10T 29/49826** (2015.01 - EP US)

Citation (search report)  
See references of WO 2012028250A1

Citation (examination)  
• DE 4135271 A1 19930429 - FREUDENBERG CARL FA [DE]  
• EP 0724110 A1 19960731 - MANN & HUMMEL FILTER [DE]  
• DE 10004261 A1 20000817 - AVL LIST GMBH [AT]

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DOCDB simple family (publication)  
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