

Title (en)  
Intake module

Title (de)  
Saugmodul

Title (fr)  
Module d'admission

Publication  
**EP 1505281 A3 20060118 (DE)**

Application  
**EP 04103709 A 20040802**

Priority  
DE 10335561 A 20030802

Abstract (en)  
[origin: EP1505281A2] The induction module has an induction manifold with at least to induction channels and closing devices in the form of valves (17, 18) to control the through flow cross section. They are operated by a common operating device via a coupling (22). They have rotating shafts (19, 20) aligned with each other and connected by the coupling.

IPC 8 full level  
**F02D 9/10** (2006.01); **F02D 11/04** (2006.01); **F02M 13/02** (2006.01); **F02M 35/10** (2006.01); **F02D 9/02** (2006.01)

CPC (source: EP)  
**F02D 9/108** (2013.01); **F02D 9/109** (2013.01); **F02D 9/1095** (2013.01); **F02D 11/04** (2013.01); **F02M 35/10124** (2013.01); **F02M 35/10255** (2013.01); **F02D 2009/0279** (2013.01)

Citation (search report)

- [PX] DE 10207060 A1 20030828 - PIERBURG GMBH [DE]
- [XA] US 4566424 A 19860128 - BILLINGSLEY HENRY C [US], et al
- [X] US 6032634 A 20000307 - MINEGISHI TERUHIKO [JP], et al
- [A] GB 1369049 A 19741002 - CITROEN SA
- [A] US 5715782 A 19980210 - ELDER JACK EDWARD [US]
- [DA] US 4823748 A 19890425 - AMPFERER HERBERT [DE], et al
- [A] US 2246750 A 19410624 - MURPHY HOWARD J
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 120 (M - 300) 6 June 1984 (1984-06-06)

Cited by  
DE102014109754A1; EP1887200A1; EP1674712A3; FR2883039A1; EP1707781A1; EP2458182A1; DE102017212116A1; DE102014109754B4; EP2557298A1; CN103061896A; US7740228B2; US8739761B2; WO2016096838A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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