

Title (en)

Turbo charger for an internal-combustion engine.

Title (de)

Turbolader für eine Brennkraftmaschine.

Title (fr)

Dispositif de suralimentation pour moteur à combustion interne.

Publication

**EP 0096624 A1 19831221 (FR)**

Application

**EP 83401067 A 19830526**

Priority

FR 8209652 A 19820603

Abstract (en)

[origin: US4519211A] This device comprises a turbocompressor C whose turbine 7 has a scroll 8a connected to two pipes 5, 6 each connected to the exhaust of a group of cylinders of the engine. The inlet of the scroll is divided by a partition 10 into two conduits 11, 12 which extend the two pipes 5, 6. A regulating flap 15 is provided and constitutes a movable wall of the scroll and includes two extensions 18, 19 which extend on each side of the partition 10 into the conduits 11, 12. This arrangement avoids the phenomenon of a counter-scavenging in the cylinders of the engine and improves the efficiency of the turbine.

Abstract (fr)

Ce dispositif comprend un turbo-compresseur (C) dont la turbine (7) comporte une volute (8<a>) raccordée à deux tubulures (5, 6) reliées chacune aux échappements d'un groupe de cylindres du moteur. L'entrée de la volute est divisée par une cloison (10) en deux conduits (11, 12) qui prolongent les deux tubulures (5, 6), un volet de réglage (15), qui constitue une paroi mobile de la volute comportant deux prolongements (18, 19) qui s'étendent de part et d'autre de ladite cloison (10) dans les conduits (11, 12). Cet agencement permet d'éviter le phénomène de contre-balayage dans les cylindres et d'améliorer le rendement de la turbine.

IPC 1-7

**F01D 17/14**

IPC 8 full level

**F02B 37/12** (2006.01); **F01D 17/14** (2006.01); **F02B 37/00** (2006.01); **F02B 37/22** (2006.01)

CPC (source: EP US)

**F01D 17/146** (2013.01 - EP US)

Citation (search report)

- [AD] DE 2143696 A1 19730308 - KUEHNLE KOPP KAUSCH AG
- [A] DE 1155649 C
- [A] FR 2404736 A1 19790427 - GARRETT CORP [US]

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US4729715A; GB2178111A; GB2178111B; EP0240381A1; FR2595118A1; US4776757A; WO2006036134A1; WO9421896A1

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