

Title (en)

Device for compressing a process gas

Title (de)

Vorrichtung zum Verdichten eines Prozessgases

Title (fr)

Dispositif pour comprimer un gaz de procédé

Publication

EP 2466144 B1 20130220 (DE)

Application

EP 10015717 A 20101216

Priority

EP 10015717 A 20101216

Abstract (en)

[origin: EP2466144A1] The device (10) has compressor units (12.1, 12.2) arranged in compressor housings (14.1, 14.2), and a driving motor (30) arranged in a motor housing (32). Gas-dynamic barriers (GB1, GB2) are arranged in an area of a driving shaft (36) of the motor. The barriers inhibit the penetration of process gas into the motor housing, and comprise two chambers. One of the chambers pointing towards the compressor housings has pressure (P1) higher than pressure of another chamber pointing towards the motor housing, where the pressure of the latter chamber is smaller than pressure in the motor housing. An independent claim is also included for a method for operating a device for compressing process gas.

IPC 8 full level

F04D 17/12 (2006.01); **F04D 29/10** (2006.01)

CPC (source: EP)

F04D 17/122 (2013.01); **F04D 29/102** (2013.01)

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