

Title (en)
Compressor

Title (de)
Verdichter

Title (fr)
Compresseur

Publication
EP 0651162 B1 19970827 (DE)

Application
EP 94115825 A 19941007

Priority
DE 4337281 A 19931102

Abstract (en)
[origin: EP0651162A1] A compressor (1) comprises a rotor shaft (10) which is rotatable about a compressor axis (18) and is equipped with a multiplicity of moving blades (7) fastened to its periphery, a compressor casing (2) surrounding the rotor shaft (10) in the area of the moving blades (7), an inlet casing (9) enclosing the rotor shaft (10) on the inlet side of the compressor (1) and having an outer shell (3) and an inner shell (16), between which an inlet space (4) for the air to be compressed is formed, which inlet space (4) is connected on the one side to the ambient via an air inlet (5) provided with an inlet filter (6) and merges on the other side into a suction duct (27) equipped with adjustable inlet guide blades (8), the outer shell (3) adjoining the compressor casing (2), and a seal casing (11) at the end of the inner shell (16) facing the moving blades (7), which seal casing (11), bearing against the periphery of the rotor shaft (10), seals off the suction duct (27) from the ambient and contains a sealing-air chamber (12) from which sealing air can discharge into the annular gap (28) between seal casing (11) and rotor shaft (10). Such a compressor is improved in its operational reliability by the sealing chamber (12) being connected to the inlet space (4) via at least one sealing-air duct (15). <IMAGE>

IPC 1-7
F04D 29/10; **F01D 9/06**

IPC 8 full level
F04D 29/08 (2006.01); **F01D 9/06** (2006.01); **F04D 29/10** (2006.01)

CPC (source: EP US)
F01D 9/065 (2013.01 - EP US); **F04D 29/102** (2013.01 - EP US)

Cited by
CN106988998A; CN106768663A; US10443614B2; US6550085B2; US6684430B2

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0651162 A1 19950503; **EP 0651162 B1 19970827**; DE 4337281 A1 19950504; DE 59403859 D1 19971002; JP H07167092 A 19950704; US 5505588 A 19960409

DOCDB simple family (application)
EP 94115825 A 19941007; DE 4337281 A 19931102; DE 59403859 T 19941007; JP 26723494 A 19941031; US 31077694 A 19940927