

Title (en)
Compressor

Title (de)
Verdichter

Title (fr)
Compresseur

Publication
EP 0913585 A1 19990506 (EN)

Application
EP 98307915 A 19980929

Priority
GB 9722916 A 19971031

Abstract (en)
An MWE compressor comprising a housing defining an inlet and an outlet, and an impeller wheel rotatably mounted in the housing such that on rotation of the wheel gas within the inlet is moved to the outlet. The housing has an inner wall defining a surface located in close proximity to radially outer edges of vanes supported by the wheel. The inlet is defined by a first tubular portion (16) an inner surface of which is an extension of the said surface of the inner wall of the housing, a second tubular portion (17) located radially outside the first portion (16) to define an annular passage (19) between the first and second portions (16,17), a wall (20) extending across the annular passage (19) between the first (16) and second (17) portions, and a conical wall (21) located upstream of the first portion (16) and extending in the radially outwards and upstream directions from adjacent the upstream end of the first portion (16) to the upstream end of the second portion (17). At least one aperture is defined between the downstream end of the conical wall (21) and the upstream end of the first tubular portion (16) to communicate with the annular passage (19). At least one aperture is defined adjacent the wheel in the surface of the inner wall of the housing to communicate with the annular passage (19). The apertures are located on opposite sides of the wall (20) extending across the annular passage (19), and at least one further aperture is provided in that wall.

IPC 1-7
F04D 29/42; F04D 27/02; F04D 29/66

IPC 8 full level
F04D 27/02 (2006.01); **F04D 29/42** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)
F04D 29/4213 (2013.01); **F04D 29/663** (2013.01); **F04D 29/685** (2013.01); **F04D 27/0207** (2013.01)

Citation (applicant)
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Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0913585 A1 19990506; **EP 0913585 B1 20040630**; CN 1119532 C 20030827; CN 1217436 A 19990526; DE 69824808 D1 20040805; DE 69824808 T2 20050714; GB 9722916 D0 19980107

DOCDB simple family (application)
EP 98307915 A 19980929; CN 98121438 A 19981030; DE 69824808 T 19980929; GB 9722916 A 19971031