

Title (en)  
Turbine

Title (de)  
Turbine

Title (fr)  
Turbine

Publication  
**EP 0625629 B1 19960828 (EN)**

Application  
**EP 93201449 A 19930521**

Priority  
EP 93201449 A 19930521

Abstract (en)  
[origin: EP0625629A1] A turbine consisting of a central rotor (20) connected with a shaft (10) and a plurality of annular stators (30,50,70) and annular rotors (40,60). The central rotor (20) is formed as a hollow frustum of right circular cone so that it has an inner side and an outer side wherein a number of curved channels (204,205) are formed. The shaft (10) is axially inserted through the central rotor (20) and rotatably supported by means of at least one thrust bearing. Each annular stator or rotor has an outer side and an inner side wherein a plurality of curved channels (204,205) are formed. The central rotor (20) is sealably mounted in the annular stators or rotors. Driving gas flows through the curved channels (204,205) formed in the central rotor (20) and the curved channels (402,602) formed in the annular stators or rotors so that the central rotor rotates in an opposite direction relative to the annular stators or rotors.

IPC 1-7  
**F01D 1/34**; **F01D 1/26**

IPC 8 full level  
**F01D 1/26** (2006.01); **F01D 1/34** (2006.01)

CPC (source: EP)  
**F01D 1/26** (2013.01); **F01D 1/34** (2013.01)

Cited by  
CN100366871C; CN1056435C; CN108301876A; WO9740259A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 0625629 A1 19941123**; **EP 0625629 B1 19960828**; DE 69304310 D1 19961002; DE 69304310 T2 19970417

DOCDB simple family (application)  
**EP 93201449 A 19930521**; DE 69304310 T 19930521