

Title (en)  
TURBO MACHINE WITH TRANSSONIC STAGES

Publication  
**EP 0261460 B1 19920624 (DE)**

Application  
**EP 87112792 A 19870902**

Priority  
DE 3632094 A 19860920

Abstract (en)  
[origin: US4836745A] In the case of a turbo-engine with transsonically traversed stages, particularly a gas turbine with a stationary forward-guiding grid, a pressure compensating arrangement for the compensation of a pressure gradients caused by the compression waves is arranged over the circumference behind the forward-guiding grid at the hub and/or at the housing. The pressure compensating arrangement comprises especially a steadying chamber in proximity of the hub of the forward-guiding grid that interacts with a radially aligned sealing flange of the rotor disk.

IPC 1-7  
**F01D 1/04**; **F01D 9/04**; **F01D 11/00**; **F02C 7/00**; **F15D 1/00**

IPC 8 full level  
**F01D 1/04** (2006.01); **F01D 5/14** (2006.01); **F01D 9/04** (2006.01); **F01D 11/00** (2006.01); **F01D 11/02** (2006.01); **F02C 7/00** (2006.01); **F15D 1/00** (2006.01)

CPC (source: EP US)  
**F01D 5/145** (2013.01 - EP US); **F01D 11/02** (2013.01 - EP US); **F05D 2240/302** (2013.01 - EP US)

Cited by  
EP0710766A1; US5721023A

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0261460 A2 19880330**; **EP 0261460 A3 19891108**; **EP 0261460 B1 19920624**; DD 265444 A1 19890301; DE 3632094 A1 19880324; DE 3779982 D1 19920730; US 4836745 A 19890606

DOCDB simple family (application)  
**EP 87112792 A 19870902**; DD 30703187 A 19870917; DE 3632094 A 19860920; DE 3779982 T 19870902; US 9767287 A 19870917