

Title (en)

NON-POSITIVE-DISPLACEMENT MACHINE AND ROTOR FOR A NON-POSITIVE-DISPLACEMENT MACHINE

Title (de)

STRÖMUNGSMASCHINE UND ROTOR FÜR EINE STRÖMUNGSMASCHINE

Title (fr)

TURBOMACHINE ET ROTOR POUR TURBOMACHINE

Publication

EP 1733124 A1 20061220 (DE)

Application

EP 05716050 A 20050314

Priority

- EP 2005002710 W 20050314
- EP 04008485 A 20040407
- EP 05716050 A 20050314

Abstract (en)

[origin: EP1584791A1] The rotor for a turbo-machine, especially for a gas turbine compressor rotor, has radially extending end faces (25) on at least one shaft collar (22), and on the outside circumference (23) of the shaft collar are retaining slots (21) for rotor blades extending transversely to the circumferential direction. An axially extending annular slot (31) co-axial to the rotational axis of the rotor is provided in at least one end face of the shaft collar and is connected to the slot base (27) of each retaining slot in such a way that material of the blade root is plastically displaced into the annular slot. An independent claim is included for a turbo-machine which is especially constructed as a gas turbine.

IPC 8 full level

F01D 5/30 (2006.01)

CPC (source: EP US)

F01D 5/326 (2013.01 - EP US); **F05D 2250/293** (2013.01 - EP US); **F05D 2260/30** (2013.01 - EP US)

Citation (search report)

See references of WO 2005100751A1

Designated contracting state (EPC)

CH DE GB IT LI SE

DOCDB simple family (publication)

EP 1584791 A1 20051012; CN 100404795 C 20080723; CN 1950590 A 20070418; DE 502005011334 D1 20110616; EP 1733124 A1 20061220; EP 1733124 B1 20110504; US 2008267781 A1 20081030; US 7628589 B2 20091208; WO 2005100751 A1 20051027

DOCDB simple family (application)

EP 04008485 A 20040407; CN 200580010891 A 20050314; DE 502005011334 T 20050314; EP 05716050 A 20050314; EP 2005002710 W 20050314; US 54794305 A 20050314