Title (en)

Rotor support structure for a turbine with an axial outlet, the bearing at the outlet side being directly and isotropically fastened to the foundation.

Title (de)

Rotorabstützung in einer Turbine mit axialem Austritt mit einer direkten, gleichförmigen Befestigung des austrittseitigen Lagers am Fundament.

Title (fr)

Système de supportage du rotor dans une turbine à échappement axial avec le palier cÔté échappement à raideur isotrope, directement flasqué sur la fondation.

Publication

EP 0394899 A1 19901031 (FR)

Application

EP 90107624 A 19900423

Priority

FR 8905544 A 19890426

Abstract (en)

The system comprises a wall (21) integral with a concrete raft (5) equipped with a circular orifice (22), through which the outlet (1) passes, and ties or arms (12) pass through the wall of the outlet and are fastened to the wall in order to support the bearing (7) on the outlet side. <??>An increase in the rigidity of the bearing (7) supporting the rotor makes it possible to ensure a higher stability of the bearing towards major accidents, for example, the loss of a last blade (BP). <??>Furthermore, as a result of the separation of the bearing function from the outlet bottom function of the stator, any unbalance of the rotor cannot excite a natural mode of the structure of the stator. <IMAGE>

IPC 1-7

F01D 25/16

IPC 8 full level

F01D 25/16 (2006.01); **F01D 25/28** (2006.01); **F02C 7/20** (2006.01); **F16M 5/00** (2006.01)

CPC (source: EP US)

F01D 25/162 (2013.01 - EP US); **F01D 25/28** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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EP 0394899 A1 19901031; **EP 0394899 B1 19930303**; AT E86358 T1 19930315; CN 1021518 C 19930707; CN 1046783 A 19901107; CS 207290 A3 19920617; DE 69000985 D1 19930408; DE 69000985 T2 19930609; DK 0394899 T3 19930614; ES 2039986 T3 19931001; FR 2646470 A1 19901102; FR 2646470 B1 19910705; JP H02301605 A 19901213; MX 173021 B 19940128; RU 1808094 C 19930407; US 5108258 A 19920428; ZA 903192 B 19910130

DOCDB simple family (application)

EP 90107624 A 19900423; AT 90107624 T 19900423; CN 90102420 A 19900426; CS 207290 A 19900425; DE 69000985 T 19900423; DK 90107624 T 19900423; ES 90107624 T 19900423; FR 8905544 A 19890426; JP 11161590 A 19900426; MX 2045890 A 19900425; SU 4743789 A 19900425; US 51502390 A 19900426; ZA 903192 A 19900426