

Title (en)
Guide vane for steam turbines

Title (de)
Leitschaufel für Dampfturbinen

Title (fr)
Aube statorique pour turbines à vapeur

Publication
EP 0863296 A3 20010321 (DE)

Application
EP 98810079 A 19980204

Priority
DE 19709607 A 19970308

Abstract (en)
[origin: EP0863296A2] The guide blade has a cavity (18) under low pressure, e.g. connected directly to the condenser, inside it, and has an aperture (3) for fluid suction in the region of its rear edge. This aperture has a porous cover (7) with capillaries which are filled with the fluid being sucked during operation. The porous cover is anchored in the blade by a mechanical fixing element (20) in the form of a spring-loaded quick lock. It consists of a bush (21) which locates the cover in the blade aperture. The cylindrical part (24) projects into the blade cavity. A movable mandrel (25) in the bush is loaded by a spring (26) and has a cap (28) on the inner wall of the blade.

IPC 1-7
F01D 25/32; F01D 5/18; F16B 19/00

IPC 8 full level
F01D 5/18 (2006.01); **F01D 25/32** (2006.01)

CPC (source: EP US)
F01D 5/183 (2013.01 - EP US); **F01D 25/32** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0726384 A1 19960814 - ABB RESEARCH LTD [CH]
- [A] US 4762437 A 19880809 - MITOMI SEIJI [JP]
- [Y] BEITZ W: "Taschenbuch für den Maschinenbau / Dubbel", 1987, SPRINGER-VERLAG, BERLIN, XP002125416, 1
- [Y] PATENT ABSTRACTS OF JAPAN vol. 008, no. 016 (M - 270) 24 January 1984 (1984-01-24) & US 5718549 A 19980217 - NODA YUSUKE [JP], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03 31 March 1997 (1997-03-31)

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