

Title (en)
Vibration damping for turbine blades

Title (de)
Schwingungsdämpfung für Turbinenschaufeln

Title (fr)
Amortissement de vibrations pour aubes de turbines

Publication
EP 0727564 B1 19981104 (DE)

Application
EP 96810059 A 19960129

Priority
DE 19505389 A 19950217

Abstract (en)
[origin: EP0727564A1] A ring (4) of pref. Sm-Co magnetic material recessed in a housing (5) of austenitic steel in the wall of the turbine casing (1) is divided into three sections (7a-7c) with alternate polarity of magnetisation. The end (8) of each blade (2) is covered with a plate (3) of approximately rhombic form from the radial aspect, with acute-angled edges parallel to the direction of rotation. The plate is mfd. advantageously of Al whose good electrical conductivity favours the induction of eddy currents and damping of vibrations.

IPC 1-7
F01D 5/26

IPC 8 full level
F01D 5/26 (2006.01); **F01D 9/00** (2006.01)

CPC (source: EP KR US)
F01D 5/16 (2013.01 - KR); **F01D 5/26** (2013.01 - EP US)

Cited by
CN104455180A; US8568088B2; EP2072755A1; EP2458150A1; US8569928B2

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CH DE ES FR GB IT LI PT SE

DOCDB simple family (publication)
EP 0727564 A1 19960821; **EP 0727564 B1 19981104**; CA 2162933 A1 19960818; CN 1140230 A 19970115; DE 19505389 A1 19960822; DE 59600750 D1 19981210; ES 2126374 T3 19990316; HU 218551 B 20001028; HU 9503685 D0 19960228; HU T76395 A 19970828; JP H08240103 A 19960917; KR 960031759 A 19960917; PL 312681 A1 19960819; US 5709527 A 19980120

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EP 96810059 A 19960129; CA 2162933 A 19951115; CN 96101417 A 19960214; DE 19505389 A 19950217; DE 59600750 T 19960129; ES 96810059 T 19960129; HU 9503685 A 19951220; JP 2666996 A 19960214; KR 19950050708 A 19951215; PL 31268196 A 19960207; US 55885895 A 19951116