

Title (en)

Overspeed limitation device for the turbine of a turbomachine and corresponding turbomachine

Title (de)

Begrenzungsvorrichtung gegen Überdrehzahl für die Turbine einer Turbomaschine und entsprechende Turbomaschine

Title (fr)

Dispositif de limitation de survitesse de turbine dans une turbomachine et turbomachine associée

Publication

EP 1921274 A1 20080514 (FR)

Application

EP 07291199 A 20071002

Priority

FR 0609502 A 20061030

Abstract (en)

The device (40) has a shearing unit for shearing bearing blades (22) of stages (30) of a turbine. The shearing unit includes a cylinder for propelling a pin (42) into a path of the blades. An explosive charge is mounted on an exhaust casing (34) of the turbine or of the turbo-machine and controlled by a detecting unit that detect that the turbine is experiencing overspeed or that a turbine shaft (24) has broken. The cylinder is mounted on an outside of the casing in a line with an orifice of the casing that opens onto the path of the blades.

Abstract (fr)

Dispositif (40) de limitation de survitesse dans une turbomachine en cas de rupture de l'arbre de turbine (24), comprenant des moyens de projection (38, 44) d'une goupille (42) sur le trajet des aubes mobiles (22), ces moyens de projection étant commandés par des moyens (36) de détection de la survitesse de rotation ou de la rupture de l'arbre de la turbine.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [A] FR 1486102 A 19670623 - LUCAS INDUSTRIES LTD
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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1921274 A1 20080514; **EP 1921274 B1 20090902**; CA 2608267 A1 20080430; CA 2608267 C 20140805; DE 602007002248 D1 20091015; FR 2907840 A1 20080502; FR 2907840 B1 20081226; JP 2008111436 A 20080515; JP 5114797 B2 20130109; RU 2007139920 A 20090510; RU 2451188 C2 20120520; US 2008101917 A1 20080501; US 8057160 B2 20111115

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