

Title (en)
Containment ring for a turbomachine

Title (de)
Berstschutzring für eine Turbomaschine

Title (fr)
Bouclier de protection d'une turbomachine

Publication
EP 0718471 A1 19960626 (FR)

Application
EP 95402879 A 19951220

Priority
FR 9415382 A 19941221

Abstract (en)
The shield (9) to protect a turbine housing from broken blades, consists of a ring of a ductile material around the turbine stator (2), attached to the engine by fixings which are calculated to shear below the force needed to break the shield. This allows the shield to deform with the annular space between the stator and outer housing (3), containing the broken blade(s) within the housing. The fixings can be in the form of shearing bolts, pins or lugs connecting the shield to the engine, or a zone of reduced strength with initial perforations.

Abstract (fr)
Bouclier de protection (9) d'un carénage extérieur (3) de turbomachine. Il consiste en un anneau de matière ductile retenu par quelques moyens d'attache relativement de rupture facile. Quand un morceau de rotor (17) détaché accidentellement vient le heurter, il le bosselle en rompant certaines des attaches ou leur totalité. Grâce à cette possibilité, qui autorise de grandes déformations du bouclier (9), la capacité d'absorption d'énergie est importante. <IMAGE>

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F01D 25/24; F01D 21/04

IPC 8 full level
F02C 7/00 (2006.01); **F01D 21/04** (2006.01); **F01D 25/24** (2006.01); **F02K 1/82** (2006.01)

CPC (source: EP US)
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Citation (search report)

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