

Title (en)  
Containment ring for a turbomachine

Title (de)  
Berstschutzring für eine Turbomaschine

Title (fr)  
Bouclier de protection d'une turbomachine

Publication  
**EP 0718471 B1 19990414 (FR)**

Application  
**EP 95402879 A 19951220**

Priority  
FR 9415382 A 19941221

Abstract (en)  
[origin: EP0718471A1] 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.

IPC 1-7  
**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)  
**F01D 21/045** (2013.01 - EP US)

Cited by  
EP1849964A3; CN102733868A; US8166746B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0718471 A1 19960626**; **EP 0718471 B1 19990414**; CA 2165511 A1 19960622; DE 69509053 D1 19990520; DE 69509053 T2 19991007; FR 2728619 A1 19960628; FR 2728619 B1 19970124; JP 2967045 B2 19991025; JP H08232683 A 19960910; RU 2122124 C1 19981120; US 5622472 A 19970422; WO 9619641 A1 19960627

DOCDB simple family (application)  
**EP 95402879 A 19951220**; CA 2165511 A 19951218; DE 69509053 T 19951220; FR 9415382 A 19941221; FR 9501698 W 19951220; JP 33369195 A 19951221; RU 96119244 A 19951220; US 57172995 A 19951213