

Title (en)
CONTAINMENT RING MADE OF FIBROUS MATERIAL

Publication
EP 0358141 B1 19920129 (DE)

Application
EP 89116273 A 19890904

Priority
DE 3830232 A 19880906

Abstract (en)
[origin: US4961685A] A protection ring of fiber material is constructed for containing or stopping fragments of a bursting structural component passing through a housing, such as a gas turbine housing through which a rotor blade fragment has burst by centrifugal force. Retaining pins are distributed around the housing zone to be protected. The fiber strands are looped around the retaining pins to form a fiber netting without any matrix material. Friction between fibers and pins is kept low so that the fibers can stretch along substantially their entire length for taking up impact energy. Thus, substantially the entire volume of the ring can participate in taking up impact energy and not only a localized ring portion that received an impact. A desirable lightweight structure is achieved.

IPC 1-7
F01D 21/04; **F02C 7/00**

IPC 8 full level
F01D 21/04 (2006.01); **F02C 7/00** (2006.01)

CPC (source: EP US)
F01D 21/045 (2013.01 - EP US)

Cited by
EP0718471A1; WO9619641A1

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