

Title (en)

Locking apparatus for an axial retention ring of a blade

Title (de)

Blockierungsvorrichtung einen axialen Retentionsring einer Schaufel

Title (fr)

Dispositif d'immobilisation d'un anneau de rétention axiale d'une aube

Publication

EP 1760258 A3 20070801 (FR)

Application

EP 06119579 A 20060825

Priority

FR 0552635 A 20050831

Abstract (en)

[origin: EP1760258A2] The device has a ring (20) for retaining blades on a rotor disk of a turbomachine. The rotor disk (10) provides a set of blocking hooks (162, 164) that spread around a circumference and defines a groove for placing the ring. The ring is provided with a split and a set of cleat (302, 304), which is arranged on the ring and placed in the groove. The cleat is compressed against one blocking hook and the split is covered by another blocking hook. The former hook is provided with a check face that cooperates with a contact face brings the cleat next to the split. Independent claims are also included for the following: (1) a ring for retaining the blades of a turbomachine rotor (2) a disk/ring assembly of a turbomachine (3) a turbomachine rotor (4) an aircraft engine.

IPC 8 full level

F01D 5/32 (2006.01); **F01D 5/02** (2006.01); **F01D 5/30** (2006.01)

CPC (source: EP US)

F01D 5/3015 (2013.01 - EP US); **F01D 5/326** (2013.01 - EP US); **F01D 11/006** (2013.01 - EP US); **F05D 2230/64** (2013.01 - EP US); **F05D 2260/30** (2013.01 - EP US)

Citation (search report)

- [AD] FR 2729709 A1 19960726 - SNECMA [FR]
- [A] US 4221542 A 19800909 - ACRES RONALD C, et al
- [A] US 5320492 A 19940614 - BOURU MICHEL A [FR], et al
- [A] US 6234756 B1 20010522 - RESS JR ROBERT ANTHONY [US], et al
- [A] EP 1443179 A2 20040804 - ROLLS ROYCE PLC [GB]

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Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1760258 A2 20070307; **EP 1760258 A3 20070801**; **EP 1760258 B1 20081015**; CA 2557765 A1 20070228; CA 2557765 C 20130702; DE 602006003155 D1 20081127; FR 2890104 A1 20070302; US 2007048141 A1 20070301; US 7290988 B2 20071106

DOCDB simple family (application)

EP 06119579 A 20060825; CA 2557765 A 20060828; DE 602006003155 T 20060825; FR 0552635 A 20050831; US 46698706 A 20060824