

Title (en)

Apparatus and method for damping vibrations between a compressor stator vane and a casing of a gas turbine engine

Title (de)

Apparat und Methode zur Dämpfung von Vibrationen zwischen Kompressorleitschaufeln und dem Gehäuse einer Gasturbine

Title (fr)

Dispositif et procédé pour amortir les vibrations entre des aubes turbocompresseur et le boîtier d'une turbine à gaz

Publication

**EP 1520957 A1 20050406 (EN)**

Application

**EP 03256262 A 20031003**

Priority

EP 03256262 A 20031003

Abstract (en)

A stator vane assembly for a compressor of a gas turbine engine, including a stator vane (34) having an inner portion (42) and an outer portion (40), a platform (47) attached to the outer portion (40) of the stator vane (34), a casing (26) for the gas turbine engine, wherein the outer platform (47) of the stator vane (34) is attached to the casing (26) in a manner so that an open area (38) is defined therebetween, and a member (36) positioned within the defined open area (38) for damping vibrations transmitted from the casing (26) to the outer platform (47). The casing (26) may have a split-line configuration so that first and second circumferential flanges (28,30) are mated together, wherein the outer platform (47) is attached to the casing (26) by means of a flange (50) extending therefrom which is positioned between and connected to the first and second circumferential flanges (28,30). Alternatively, the casing may have a clam shell configuration so that first and second axial flanges are mated together, wherein the outer platform is attached to the casing by means of a rail member incorporated into an inner surface of the casing. <IMAGE>

IPC 1-7

**F01D 5/26; F01D 9/04; F01D 25/24**

IPC 8 full level

**F01D 5/26 (2006.01); F01D 9/04 (2006.01); F01D 25/24 (2006.01)**

CPC (source: EP)

**F01D 5/26 (2013.01); F01D 9/041 (2013.01); F01D 9/042 (2013.01); F01D 25/246 (2013.01)**

Citation (search report)

- [XY] US 5429479 A 19950704 - CORDIER JEAN-CHRISTOPHE M [FR]
- [XY] US 4897021 A 19900130 - CHAPLIN GARY F [US], et al
- [Y] EP 1081335 A2 20010307 - UNITED TECHNOLOGIES CORP [US]
- [A] US 5848874 A 19981215 - HEUMANN DAVID E [US], et al

Cited by

CN107438702A; CN108953130A; CN105683511A; JP2016540917A; EP2009242A1; FR2918108A1; US8147191B2; US9816387B2; US11041392B2; WO2015060982A1; WO2015061063A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1520957 A1 20050406; EP 1520957 B1 20080123; DE 60318852 D1 20080313; DE 60318852 T2 20090205**

DOCDB simple family (application)

**EP 03256262 A 20031003; DE 60318852 T 20031003**