

Title (en)

METHOD FOR INCREASING AERODYNAMIC STABILITY OF A WORKING FLUID OF A COMPRESSOR

Title (de)

VERFAHREN ZUR ERHÖHUNG DER AERODYNAMISCHEN STABILITÄT EINER ARBEITSFLUIDSTRÖMUNG EINES VERDICHTERS

Title (fr)

PROCEDE POUR AUGMENTER LA STABILITE AERODYNAMIQUE D'UN COURANT DE FLUIDE ACTIF D'UN COMPRESSEUR

Publication

**EP 1896708 A1 20080312 (DE)**

Application

**EP 06777314 A 20060613**

Priority

- EP 2006063130 W 20060613
- CH 10842005 A 20050627

Abstract (en)

[origin: WO2007000390A1] The invention relates to a method for increasing aerodynamic stability of a flow of working fluid of a compressor of a turbo machine, in particular, a compressor of a gas turbine which is used to produce a current, in particular, in relation to rapidly changing aerorotations of the compressor. The method consists of mixing a first water mass flow with the flow of working fluid (step 107). The invention also relates to a turbomachine, in particular a gas turbine (1), wherein said type of method is used.

IPC 8 full level

**F02C 3/30** (2006.01); **F02C 7/143** (2006.01); **F04D 27/02** (2006.01)

CPC (source: EP US)

**F04D 27/02** (2013.01 - EP US); **F04D 29/5846** (2013.01 - EP US); **F04D 29/705** (2013.01 - EP US)

Citation (search report)

See references of WO 2007000390A1

Citation (examination)

- US 2974482 A 19610314 - KELLEY GEORGE S
- US 6260350 B1 20010717 - HORII NOBUYUKI [JP], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2007000390 A1 20070104**; EP 1896708 A1 20080312; US 2008168761 A1 20080717; US 7726132 B2 20100601

DOCDB simple family (application)

**EP 2006063130 W 20060613**; EP 06777314 A 20060613; US 443407 A 20071221