

Title (en)
METHOD AND DEVICE FOR NONDESTRUCTIVELY ACOUSTICALLY EXAMINING AT LEAST ONE REGION OF A COMPONENT OF A TURBOMACHINE FOR SEGREGATIONS

Title (de)
VERFAHREN UND VORRICHTUNG ZUM ZERSTÖRUNGSFREIEN AKUSTISCHEN UNTERSUCHEN ZUMINDEST EINES BEREICHS EINES BAUTEILS EINER STRÖMUNGSMASCHINE AUF SEIGERUNGEN

Title (fr)
PROCÉDÉ ET DISPOSITIF D'EXAMEN ACOUSTIQUE NON DESTRUCTIF D'AU MOINS UNE ZONE D'UN COMPOSANT D'UNE TURBOMACHINE AU NIVEAU DE SÉGRÉGATIONS

Publication
EP 3814766 A1 20210505 (DE)

Application
EP 19736961 A 20190618

Priority
• DE 102018210500 A 20180627
• DE 2019000162 W 20190618

Abstract (en)
[origin: WO2020001671A1] The invention relates to a method for nondestructively acoustically examining at least one region (I) of a component (10) of a turbomachine, wherein at least the following steps are performed: a) arranging a transmitter (12) comprising a plurality of individual oscillators on the region (I) of the component to be examined, b) introducing at least one ultrasound beam (16) into the component (10) by means of the transmitter (12), c) receiving at least one ultrasound beam (18) reflected by the component (10) by means of a receiver (20) comprising a plurality of individual receivers, and d) checking, on the basis of the received ultrasound beam, whether there is a deviation in the region (I) of the component (10) which characterizes a segregation. The invention further relates to a device for carrying out a method of this type.

IPC 8 full level
G01N 29/04 (2006.01); **G01D 7/00** (2006.01); **G01D 7/12** (2006.01); **G01N 29/06** (2006.01); **G01N 29/26** (2006.01); **G01N 29/48** (2006.01)

CPC (source: EP US)
G01N 29/043 (2013.01 - EP US); **G01N 29/0609** (2013.01 - EP US); **G01N 29/262** (2013.01 - EP US); **G01N 29/48** (2013.01 - EP US); **G01N 2291/044** (2013.01 - EP US); **G01N 2291/105** (2013.01 - EP); **G01N 2291/106** (2013.01 - EP US); **G01N 2291/2693** (2013.01 - EP US)

Citation (search report)
See references of WO 2020001671A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102018210500 A1 20200102; EP 3814766 A1 20210505; US 2021215641 A1 20210715; WO 2020001671 A1 20200102

DOCDB simple family (application)
DE 102018210500 A 20180627; DE 2019000162 W 20190618; EP 19736961 A 20190618; US 201917255818 A 20190618