

Title (en)

METHOD FOR DETECTING AN ICING CONDITION OF OR THE NEED FOR SERVICING A FUEL CIRCUIT OF A TURBINE ENGINE

Title (de)

VERFAHREN ZUR ERFASSUNG EINES VEREISUNGSZUSTANDS ODER DAS ERFORDERNIS DER WARTUNG EINES TREIBSTOFFKREISLAUFS EINES TURBOTRIEBWERKS

Title (fr)

PROCEDE DE DETECTION D'UN ETAT DE GIVRAGE OU DE BESOIN DE MAINTENANCE D'UN CIRCUIT DE CARBURANT DE TURBOMACHINE

Publication

**EP 2419617 A1 20120222 (FR)**

Application

**EP 10723654 A 20100412**

Priority

- FR 2010050698 W 20100412
- FR 0952421 A 20090414

Abstract (en)

[origin: WO2010119215A1] The invention relates to detecting an icing condition of a fuel circuit (1) of a turbine engine including: a step of acquiring information representative of a first fuel temperature T1 downstream from the fuel metering valve (10) and of the comparison of the first temperature T1 to a first reference temperature Toi; a step of detecting a clogging of the filtration unit (6); and, in the event the measured temperature T1 is lower than the first reference temperature Toi and a clog is detected, transmitting a signal indicating an icing condition of the fuel circuit (1). Information representing a second temperature T2 of the fuel in the tank (3) can be acquired and compared to a reference temperature T02 to confirm or render the icing condition invalid. A signal indicating a need for servicing a fuel circuit is transmitted when the acquired temperatures T1 and T2 are not lower than the reference temperatures Toi and T02 while a clog is detected.

IPC 8 full level

**F02C 7/224** (2006.01); **F23K 5/02** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)

**F02C 7/224** (2013.01 - EP US); **F23K 5/04** (2013.01 - EP US); **F23K 5/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2010119215A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**FR 2944216 A1 20101015; FR 2944216 B1 20110603**; BR PI1014217 A2 20160412; CA 2758651 A1 20101021; CN 102395773 A 20120328; EP 2419617 A1 20120222; JP 2012523545 A 20121004; RU 2011146026 A 20130520; US 2012032809 A1 20120209; WO 2010119215 A1 20101021

DOCDB simple family (application)

**FR 0952421 A 20090414**; BR PI1014217 A 20100412; CA 2758651 A 20100412; CN 201080016932 A 20100412; EP 10723654 A 20100412; FR 2010050698 W 20100412; JP 2012505202 A 20100412; RU 2011146026 A 20100412; US 201013264432 A 20100412