

Title (en)

DEVICE AND METHOD FOR MONITORING THE OXYGEN CONCENTRATION IN AN AIRCRAFT TANK

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BERWACHUNG DER SAUERSTOFFKONZENTRATION IN EINEM FLUGZEUGTANK

Title (fr)

DISPOSITIF ET PROCEDE POUR LA SURVEILLANCE DE LA CONCENTRATION EN OXYGENE DANS UN RESERVOIR D'AERONEF

Publication

**EP 1633627 A1 20060315 (DE)**

Application

**EP 04741756 A 20040608**

Priority

- EP 2004051062 W 20040608
- DE 10327060 A 20030616

Abstract (en)

[origin: WO2004113169A1] The invention relates to a device for monitoring the oxygen concentration in an aircraft tank. Said device comprises an absorption measuring section equipped with a laser or laser diode (6), a photodiode (7), a temperature sensor (8) and a reflector (5) for carrying out laser spectroscopy on a gas volume to be measured inside the tank. The conducting components of said device are positioned outside the tank and its reflector (5) is positioned in the tank in the gas volume to be measured, said components and reflector being optically coupled by means of a window (3) that is situated in the tank wall (2). The absorption measuring section is mainly located in the chamber containing the gas to be measured.

IPC 1-7

**B64D 37/32**; **G01N 21/39**; **G01N 21/35**

IPC 8 full level

**B64D 37/32** (2006.01); **G01N 21/35** (2006.01); **G01N 21/39** (2006.01)

CPC (source: EP US)

**B64D 37/32** (2013.01 - EP US); **G01N 21/3504** (2013.01 - EP US); **G01N 21/39** (2013.01 - EP US)

Citation (search report)

See references of WO 2004113169A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2004113169 A1 20041229**; EP 1633627 A1 20060315; US 2006163483 A1 20060727; US 7456969 B2 20081125

DOCDB simple family (application)

**EP 2004051062 W 20040608**; EP 04741756 A 20040608; US 55926105 A 20051202