

Title (en)

CLEANING METHOD FOR SURFACES IN THE INTERNAL VOLUME OF AIRCRAFT COMPONENTS THROUGH WHICH A MEDIUM FLOWS

Title (de)

REINIGUNGSVERFAHREN FÜR OBERFLÄCHEN IM INNENVOLUMEN VON DURCHSTRÖMTEN FLUGZEUGKOMPONENTEN

Title (fr)

PROCÉDÉ DE NETTOYAGE POUR DES SURFACES DANS LE VOLUME INTÉRIEUR DE COMPOSANTS D'AVION TRAVERSÉ PAR UN FLUX

Publication

EP 3642549 B1 20230802 (DE)

Application

EP 18733550 A 20180618

Priority

- DE 102017210554 A 20170622
- EP 2018066071 W 20180618

Abstract (en)

[origin: WO2018234218A1] The invention relates to a method for cleaning surfaces in the internal volume of a heat exchanger (2), comprising at least the following steps: connecting the internal volume to be cleaned to a steam generator (4), generating a cleaning vapour (7) with a predetermined vapour pressure and temperature in the steam generator (4), applying the cleaning vapour (7) to the surfaces to be cleaned in the internal volume of the heat exchanger (2), maintaining the vapour pressure and the temperature inside the internal volume for the duration of a predetermined condensation time, generating a pressure drop (10) in the internal volume of the heat exchanger (2) to evaporate the portion (8) of the cleaning vapour (7) that has condensed during the condensation time and carrying away the cleaning vapour (7, 13) from the internal volume of the heat exchanger (2) by means of a drainage device (12).

IPC 8 full level

F28G 9/00 (2006.01); **B08B 3/10** (2006.01); **B08B 9/023** (2006.01); **B08B 9/027** (2006.01); **B08B 9/032** (2006.01); **F28G 13/00** (2006.01); **F28G 15/00** (2006.01)

CPC (source: EP US)

B08B 9/0321 (2013.01 - EP); **B08B 9/0325** (2013.01 - US); **B08B 9/0327** (2013.01 - US); **F28G 9/00** (2013.01 - EP US); **F28G 13/005** (2013.01 - EP US); **B08B 2230/01** (2013.01 - EP US); **F24F 2221/22** (2013.01 - EP); **F28G 2015/006** (2013.01 - EP US)

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

DOCDB simple family (publication)

DE 102017210554 A1 20181227; **DE 102017210554 B4 20200604**; CN 110770528 A 20200207; CN 110770528 B 20211126; DK 3642549 T3 20231009; EP 3642549 A1 20200429; EP 3642549 B1 20230802; ES 2959313 T3 20240223; US 11311919 B2 20220426; US 2020171553 A1 20200604; WO 2018234218 A1 20181227

DOCDB simple family (application)

DE 102017210554 A 20170622; CN 201880041807 A 20180618; DK 18733550 T 20180618; EP 18733550 A 20180618; EP 2018066071 W 20180618; ES 18733550 T 20180618; US 201816624308 A 20180618