

Title (en)

ARRANGEMENT FOR PREVENTING ICE FORMATION IN A CHARGE AIR COOLER

Title (de)

ANORDNUNG ZUR VERHINDERUNG DER BILDUNG VON EIS IN EINEM LADUNGSLUFTKÜHLER

Title (fr)

DISPOSITIF POUR PRÉVENIR LA FORMATION DE GLACE DANS UN REFROIDISSEUR D'AIR D'ALIMENTATION

Publication

EP 2536931 A1 20121226 (EN)

Application

EP 11744964 A 20110207

Priority

- SE 1050162 A 20100219
- SE 2011050136 W 20110207

Abstract (en)

[origin: WO2011102784A1] The present invention relates to an arrangement for preventing ice formation in a charge air cooler which comprises a radiator portion (3) in which compressed air is cooled by surrounding air which flows through the radiator portion (3). The arrangement comprises a first flow element (7a) which in a closed position is adapted to preventing compressed air from being led through a region (A) of the radiator portion (3), a second flow element (7b) which in a closed position is adapted to preventing compressed air from being led through a second region (B) of the radiator portion (3) which is larger than the first region of the radiator portion (A), and a control unit (10) adapted to receiving information concerning at least one parameter (11, 12, 14) which is related to the risk of ice formation in the charge air cooler, which control unit (10), in cases where said parameter or parameters indicate that there is risk of ice formation in the charge air cooler, is adapted to placing one of the flow elements (7a, 7b) in a closed position so that the compressed air is led through a reduced region (RA, RB) of the radiator portion (3).

IPC 8 full level

F02B 29/04 (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP SE)

F02B 29/0418 (2013.01 - EP SE); **F02B 29/0456** (2013.01 - EP); **F02B 29/0475** (2013.01 - EP); **F02B 29/0493** (2013.01 - SE); **F28F 17/00** (2013.01 - EP); **F02M 35/1038** (2013.01 - EP); **F28D 2021/0082** (2013.01 - EP); **F28F 27/02** (2013.01 - SE); **Y02T 10/12** (2013.01 - EP)

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)

WO 2011102784 A1 20110825; BR 112012018477 A2 20200825; EP 2536931 A1 20121226; EP 2536931 A4 20150506; SE 1050162 A1 20110820; SE 534618 C2 20111025

DOCDB simple family (application)

SE 2011050136 W 20110207; BR 112012018477 A 20110207; EP 11744964 A 20110207; SE 1050162 A 20100219