Title (en)

Aerodynamic device for regulating the temperature and pressure in a fluid circulation circuit

Title (de)

Aerodynamische Vorrichtung zur Temperatur- und Druckregelung in einem Fluidkreislauf

Title (fr)

Dispositif aérodynamique de régulation de la température et de la pression dans un circuit de circulation de fluides

Publication

EP 2532960 A3 20131002 (FR)

Application

EP 12170898 A 20120605

Priority

FR 1154965 A 20110607

Abstract (en)

[origin: EP2532960A2] The device has a main duct (1) for circulation of flow of fluid to be regulated. A delivering duct (2) includes an injecting unit (2-2) for injecting make-up fluid into the main duct selectively along two orientations. A selecting unit for selecting orientation of injection is situated outside the main duct. The injecting unit is constituted by an annular box defining the main duct, where the box is provided with a movable flap (2-3). An incrementing or decrementing unit enables increase or reduction of temperature in the main duct by injecting the make-up fluid. An independent claim is also included for a method for regulating pressure, flow rate and temperature fluid.

IPC 8 full level

F23L 17/16 (2006.01); **F04F 5/46** (2006.01)

CPC (source: EP US)

F04F 5/461 (2013.01 - EP US); **F23L 17/16** (2013.01 - EP US); Y10T 137/0329 (2015.04 - EP US); Y10T 137/0352 (2015.04 - EP US); Y10T 137/87676 (2015.04 - EP US)

Citation (search report)

- [X] US 6269755 B1 20010807 - BOSWELL JOHN J [US], et al
- [X] DE 1094396 B 19601208 - SCHMIDT SCHE HEISSDAMPF
- [X] US 2397870 A 19460402 - KNEASS JR STRICKLAND
- [A] FR 2324993 A1 19770415 - LEDROFF SA CHEMINEES RICHARD [FR]
- [A] DE 3507245 A1 19860904 - HEUSSNER HEINZ
- [A] EP 1413828 A2 20040428 - JOSEPH RAAB GMBH & CIE KG [DE]

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)

EP 2532960 A2 20121212; **EP 2532960 A3 20131002**; BE 1020814 A5 20140506; BR 102012013561 A2 20130702; CN 102818274 A 20121212; CN 102818274 B 20160413; FR 2976329 A1 20121214; FR 2976329 B1 20160205; RU 2012123512 A 20131220; RU 2524499 C2 20140727; US 2012312203 A1 20121213

DOCDB simple family (application)

EP 12170898 A 20120605; BE 201200366 A 20120531; BR 102012013561 A 20120605; CN 201210183319 A 20120605; FR 1154965 A 20110607; RU 2012123512 A 20120606; US 201213489229 A 20120605