

Title (en)
DUCTED AIR APPLIANCE WITH VENTILATION CLOSURE MEANS

Title (de)
LUFTKANAL GERÄT MIT VENTILATIONS-VERSCHLUSS

Title (fr)
APPAREIL À CONDUIT D'AIR AVEC DES MOYENS DE FERMETURE DE VENTILATION

Publication
EP 3118537 A1 20170118 (EN)

Application
EP 15176639 A 20150714

Priority
EP 15176639 A 20150714

Abstract (en)
The present invention discloses an appliance comprising a casing, a refrigerant circuit disposed in the casing, an air inlet and an air outlet connected with the casing, and a fan disposed in the casing for creating an air flow passing through the air inlet and the air outlet. Wherein, the air flow forms an exchange medium of the refrigerant circuit. The appliance further comprises a ventilation closure means associated with the casing for establishing a leak path when the fan is in an off state and closing said leak path when the fan is in a running state. In this way, the appliance can be air sealed during operation to avoid air losses which will result in a decrease of the performance, and establish a refrigerant leak path when the fan stops or is broken to avoid an accumulation of the leaked refrigerant inside the appliance.

IPC 8 full level
F24H 4/04 (2006.01); **A62C 2/06** (2006.01); **A62C 2/12** (2006.01); **F24D 19/10** (2006.01); **F24F 11/00** (2006.01); **F24H 9/20** (2006.01); **F25B 49/00** (2006.01)

CPC (source: CN EP US)
F24D 19/1054 (2013.01 - CN EP US); **F24F 13/02** (2013.01 - CN); **F24H 4/04** (2013.01 - EP); **F24H 9/2007** (2013.01 - CN EP US); **F24F 11/0001** (2013.01 - EP)

Citation (search report)

- [A] EP 2631570 A2 20130828 - LENNOX IND INC [US]
- [A] WO 2015072270 A1 20150521 - DAIKIN IND LTD [JP]
- [A] US 2005028540 A1 20050210 - ZIMA MARK J [US], et al
- [A] WO 2015037354 A1 20150319 - MITSUBISHI ELECTRIC CORP [JP]
- [A] US 2012222631 A1 20120906 - LESAGE CLAUDE [CA], et al

Cited by
EP3683518A1; DE102019001532A1; JP2022548564A; DE102019101427A1; EP4063759A1; FR3120932A1

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 3118537 A1 20170118; EP 3118537 B1 20180425; CN 106196536 A 20161207; CN 106196536 B 20190108; DK 3118537 T3 20180730; ES 2677719 T3 20180806; HR P20180918 T1 20180907; PL 3118537 T3 20181130; PT 3118537 T 20180720; TR 201809411 T4 20180723

DOCDB simple family (application)
EP 15176639 A 20150714; CN 201610540785 A 20160711; DK 15176639 T 20150714; ES 15176639 T 20150714; HR P20180918 T 20180613; PL 15176639 T 20150714; PT 15176639 T 20150714; TR 201809411 T 20150714