

Title (en)

METHOD FOR STARTING A COOLANT FLUID CIRCUIT COMPRISING A LIQUID PUMP

Title (de)

VERFAHREN ZUM STARTEN EINES KÜHLFLÜSSIGKEITSKREISLAUFS MIT EINER FLÜSSIGKEITSPUMPE

Title (fr)

PROCEDE DE DEMARRAGE D'UN CIRCUIT DE FLUIDE REFRIGERANT COMPRENANT UNE POMPE LIQUIDE

Publication

**EP 3682174 A1 20200722 (FR)**

Application

**EP 18782101 A 20180910**

Priority

- FR 1758370 A 20170911
- FR 2018052203 W 20180910

Abstract (en)

[origin: WO2019048801A1] Method for starting a coolant circuit (100, 200, 300), comprising at least: -a first sub-circuit (120, 220, 320) in which there are arranged at least one compressor (122, 222, 322), a first heat exchanger (124, 224, 324) and a first expansion member (126, 226, 326), - a second sub-circuit (140, 240, 340) in which there are arranged at least one second expansion member (142, 242, 342), a second heat exchanger (144, 244, 344) associated with a drivetrain of the vehicle and a pump (146, 246, 346), -a third heat exchanger (162, 262, 362) common to the first sub-circuit (120, 220, 320) and to the second sub-circuit (140, 240, 340), the start-up method comprising at least one initial step of stopping the pump (146, 246, 346) and the compressor (122, 222, 322), and a step of starting the compressor (122, 222, 322) for a duration of less than 2 minutes. Application to motor vehicles.

IPC 8 full level

**F25B 6/04** (2006.01); **B60H 1/00** (2006.01); **F25B 5/04** (2006.01); **F25B 41/04** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)

**B60H 1/00278** (2013.01 - EP); **B60H 1/004** (2013.01 - EP); **B60H 1/322** (2013.01 - EP); **F25B 5/04** (2013.01 - EP); **F25B 6/04** (2013.01 - EP US); **F25B 41/20** (2021.01 - EP US); **F25B 41/385** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP); **F25B 49/022** (2013.01 - EP); **B60H 1/00885** (2013.01 - EP); **B60H 2001/00307** (2013.01 - EP); **B60H 2001/3272** (2013.01 - EP); **F25B 2500/26** (2013.01 - EP); **F25B 2600/01** (2013.01 - EP); **F25B 2600/02** (2013.01 - EP); **F25B 2600/11** (2013.01 - EP); **F25B 2600/13** (2013.01 - EP)

Citation (search report)

See references of WO 2019048801A1

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)

**WO 2019048801 A1 20190314**; CN 111542721 A 20200814; EP 3682174 A1 20200722; FR 3071048 A1 20190315; FR 3071048 B1 20190823

DOCDB simple family (application)

**FR 2018052203 W 20180910**; CN 201880068777 A 20180910; EP 18782101 A 20180910; FR 1758370 A 20170911