

Title (en)

DUAL PORT HEAT PIPE STRUCTURE FOR SWITCHGEAR

Title (de)

WÄRMEROHRSTRUKTUR MIT DOPPELPORT FÜR SCHALTANLAGE

Title (fr)

STRUCTURE DE CALODUC À DOUBLE ORIFICE POUR DISPOSITIF DE COMMUTATION

Publication

EP 2856482 A1 20150408 (EN)

Application

EP 13728277 A 20130522

Priority

- US 201213481977 A 20120529
- US 2013042126 W 20130522

Abstract (en)

[origin: US2013319024A1] A cooling apparatus is provided for a switchgear. The switchgear has an enclosure having a plurality of compartments. The cooling apparatus includes at least one evaporator constructed and arranged to be mounted in one of the compartments. The evaporator includes an evaporator plate having surfaces defining passage structure therein, and a cover plate covering a portion of the evaporator plate to seal the passage structure. A condenser is located at a higher elevation than the evaporator. First and second conduits fluidly connect the evaporator plate with the condenser. A working fluid is in the passage structure so as to be heated to a vapor state at the evaporator, with the first fluid conduit transferring the vapor to the condenser and with the second fluid conduit passively returning condensed working fluid back to the passage structure of the evaporator.

IPC 8 full level

H01H 9/52 (2006.01); **F25B 39/02** (2006.01); **F28D 15/02** (2006.01); **H02B 1/56** (2006.01); **H02G 5/10** (2006.01)

CPC (source: CN EP US)

F28D 15/0266 (2013.01 - CN EP US); **H01H 9/52** (2013.01 - CN EP US); **H02B 1/56** (2013.01 - CN EP US);
H01H 2009/523 (2013.01 - CN EP US); **H01H 2009/526** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2013181027A1

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)

US 2013319024 A1 20131205; CN 104335310 A 20150204; EP 2856482 A1 20150408; WO 2013181027 A1 20131205

DOCDB simple family (application)

US 201213481977 A 20120529; CN 201380027614 A 20130522; EP 13728277 A 20130522; US 2013042126 W 20130522