Title (en)

METHOD OF COOLING A MEDIUM-VOLTAGE ELECTRICAL APPARATUS BY INTEGRATED HEAT PIPES AND SYSTEM USING THIS METHOD

Title (de)

VERFAHREN ZUR KÜHLUNG EINES ELEKTRISCHEN MITTELSPANNUNGSGERÄTS DURCH INTEGRIERTE HEIZROHRE UND SYSTEM MIT DIESEM VERFAHREN

Title (fr)

PROCEDE DE REFROIDISSEMENT PAR CALODUCS INTEGRES D'UN APPAREIL ELECTRIQUE MOYENNE TENSION ET SYSTEME UTILISANT CE PROCEDE

Publication

EP 2494569 B1 20141217 (FR)

Application

EP 10768250 A 20101025

Priority

- FR 0957484 A 20091026
- EP 2010066017 W 20101025

Abstract (en)

[origin: WO2011051202A1] The method according to the invention serves to cool a high-current medium-voltage electrical apparatus such as a circuit breaker. It consists in inserting two heat pipes (11) in series inside the latter, placing a first end (HA) of a first heat pipe (11) in the hotter (11C) of the hot parts (10A, 10C) of the circuit breaker (10) and a second end (11B) of the first heat pipe (11) in the less hot (10A) of the hot parts (10A, 10C). The other heat pipe (11) is placed between the less hot (10A) of the hot parts and a less hot part (10B) of the circuit breaker. One particular application is for high-current medium-voltage circuit breakers.

IPC 8 full level

H01H 9/52 (2006.01)

CPC (source: EP US)

H01H 9/52 (2013.01 - EP US); H01H 2009/523 (2013.01 - EP US); H01H 2009/526 (2013.01 - EP US)

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)

FR 2951859 A1 20110429; **FR 2951859 B1 20121221**; CN 102598175 A 20120718; EP 2494569 A1 20120905; EP 2494569 B1 20141217; JP 2013508907 A 20130307; US 2012206863 A1 20120816; US 8717745 B2 20140506; WO 2011051202 A1 20110505

DOCDB simple family (application)

FR 0957484 A 20091026; CN 201080048305 A 20101025; EP 10768250 A 20101025; EP 2010066017 W 20101025; JP 2012534717 A 20101025; US 201013502440 A 20101025