

Title (en)

POWER SWITCHING EQUIPMENT FOR BOILERS USED WITHIN REGULATED WATER HEATING USING DIRECT CURRENT FORM PHOTOVOLTAIC PANELS

Title (de)

EINSCHALTVORRICHTUNG FÜR KESSEL ZUR VERWENDUNG IN EINER REGULIERTEN WASSERERWÄRMUNG MIT DIREKTSTROM AUS PHOTOVOLTAIKTAFELN

Title (fr)

ÉQUIPEMENT DE COMMUTATION DE PUISSANCE POUR CHAUDIÈRES MISES EN OEUVRE DANS DES SYSTÈMES RÉGULÉS DE CHAUFFAGE D'EAU UTILISANT DU COURANT CONTINU ISSU DE PANNEAUX PHOTOVOLTAÏQUES

Publication

EP 2766670 B1 20160224 (EN)

Application

EP 12815770 A 20121205

Priority

- SK 262012 A 20120208
- IB 2012002633 W 20121205

Abstract (en)

[origin: CN104302985A] Power switching equipment for boilers used within regulated water heating using direct current from photovoltaic panels consists of two contactors (ST1, ST2), a thermal fuse (TP), thermostat (T), heating elements (R), two signal devices (S1, S2) and wiring terminals (X1, X2, X3, X4, X5, X6, X7). The equipment uses both direct (DC) as well as alternating (AC) current. The positive pole of the direct current power source (DC) is directed to the main terminals of both contactors (ST1, ST2). Contactor coils are used to switch the direct current (DC) between contactors (ST1, ST2); these coils are powered by alternating current (AC) which passes through the thermostat (T) and the thermal fuse (TP) before reaching the coils.

IPC 8 full level

F24H 9/20 (2006.01); **F24D 18/00** (2022.01)

CPC (source: EP US)

F24D 18/00 (2022.01 - EP US); **F24H 9/2014** (2013.01 - EP US); **F24D 2101/40** (2022.01 - EP US)

Cited by

WO2023215919A1; GB2618349A

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)

CN 104302985 A 20150121; EA 026301 B1 20170331; EA 201590352 A1 20150529; EP 2766670 A2 20140820; EP 2766670 B1 20160224; ES 2569046 T3 20160506; HR P20160338 T1 20160506; IL 233708 A0 20140930; JP 2015510098 A 20150402; JP 5833775 B2 20151216; KR 101571052 B1 20151123; KR 20140108680 A 20140912; PL 220171 B1 20150930; PL 406771 A1 20141110; SK 262012 A3 20131104; UA 111909 C2 20160624

DOCDB simple family (application)

CN 201280069103 A 20121205; EA 201590352 A 20121205; EP 12815770 A 20121205; ES 12815770 T 20121205; HR P20160338 T 20160404; IL 23370814 A 20140717; JP 2014553816 A 20121205; KR 20147019405 A 20121205; PL 40677112 A 20121205; SK 262012 A 20120208; UA A201502052 A 20121205