

Title (en)
Electrical power supply circuit

Title (de)
Elektrische Netzteilschaltung

Title (fr)
Circuit d'alimentation électrique

Publication
EP 2276323 A1 20110119 (EN)

Application
EP 09425287 A 20090716

Priority
EP 09425287 A 20090716

Abstract (en)
There is described a power circuit (10) to supply and control at least one heating element (5), having a single-phase resistive load in alternating voltage, the circuit (10) having a three-phase alternating voltage source (6) comprising: a rectifier (3) suitable to transform the alternating voltage of the three-phase source into a single-phase direct voltage; a frequency converter (4) suitable to transform the single-phase direct voltage into single-phase alternating voltage for the heating element (5); a PLC suitable to control said frequency converter (4), according to a periodic sequence of alternating active phases and recirculation phases such that the effective voltage output from said converter (4) can be regulated by varying the duration of said phases.

IPC 8 full level
H05B 6/06 (2006.01)

CPC (source: EP)
H05B 6/067 (2013.01)

Citation (search report)
• [X] US 2006118549 A1 20060608 - FISHMAN OLEG S [US], et al
• [A] WO 0051410 A2 20000908 - ABB METALLURG [US]
• [A] FR 1511457 A 19680126 - HERAEUS HOCHVAKUUM GMBH

Cited by
EP3790180A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
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