

Title (en)

Electrical system for controlling contactors working in parallel

Title (de)

Elektrische Anordnung zum Ansteuern parallel betriebener Schütze

Title (fr)

Système électrique pour la commande des contacteurs fonctionnant en parallèle

Publication

**EP 1503395 A3 20070314 (DE)**

Application

**EP 04016168 A 20040709**

Priority

DE 20311712 U 20030730

Abstract (en)

[origin: EP1503395A2] In energizing, one contactor (1) contains electronic energizing control (AS) with two high current inputs (A1,2) for pulsewidth modulated DC energizing of magnetic drives (K1,2) of all contactors (1,2), in specified, resistance containing connection. Low current control inputs (A10,11) are bridged by thermo-switches (TS1,2), breaking on attaining preset limit temperature, each allocated to one contactor and thermally coupled to inner current rails (S13,21), leading to main contacts (HA1,2) of each contactor.

IPC 8 full level

**H01H 47/00** (2006.01); **H01H 47/04** (2006.01); **H01H 9/40** (2006.01); **H01H 50/54** (2006.01)

CPC (source: EP)

**H01H 47/002** (2013.01); **H01H 47/04** (2013.01); **H01H 9/40** (2013.01); **H01H 50/541** (2013.01)

Citation (search report)

- [DA] DE 29909901 U1 19990930 - MOELLER GMBH [DE]
- [A] US 2138275 A 19381129 - KONRAD HEINRICH
- [A] WO 9641358 A1 19961219 - TRANSPORTATION SAFETY DEVICES [US], et al
- [A] US 5324989 A 19940628 - THORNTON ROGER D [US]

Cited by

DE102008015439B3; DE102008015437B3; WO2009118119A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

**DE 20311712 U1 20041209**; DE 502004011724 D1 20101118; DK 1503395 T3 20110131; EP 1503395 A2 20050202; EP 1503395 A3 20070314; EP 1503395 B1 20101006; ES 2353210 T3 20110228

DOCDB simple family (application)

**DE 20311712 U 20030730**; DE 502004011724 T 20040709; DK 04016168 T 20040709; EP 04016168 A 20040709; ES 04016168 T 20040709