Title (en)

Short circuit trigger with optimised coil connection

Title (de)

Kurzschlussauslöser mit optimierter Spulenanbindung

Title (fr)

Coupe-circuit avec connexion optimisée de la bobine

Publication

EP 2544207 A1 20130109 (DE)

Application

EP 11172627 A 20110705

Priority

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Abstract (en)

The trigger (1) has an armature and a pole that are arranged within a coil body. A yoke metal plate and a clamp terminal (7) are arranged around a bobbin. A coil (5) is rolled up on the bobbin, where two ends (14, 15) at same side of the coil are welded corresponding to coil terminals. One end of the coil is pulled straight and parallel to a bimetal part, and another end of the coil is pulled straight and directly to the clamp terminal. A magnet metal sheet faces the yoke plate resting against the clamp terminal.

Abstract (de)

Die Erfindung betrifft einen Kurzschlussauslöser (1), insbesondere für einen Leistungsschalter mit einem Anker (2) und einem Pol (3), die innerhalb eines Spulenkörpers (4) angeordnet sind, sowie einem Jochblech (6) und einem Klemmenanschluss (7), die um den Spulenkörper (4) herum angeordnet sind. Die Erfindung zeichnet sich dadurch aus, dass auf dem Spulenkörper (4) eine Spule (5) aufgewickelt ist, deren zwei Enden (14,15) von derselben Seite an entsprechende Spulenanschlüsse anschweißbar sind.

IPC 8 full level

H01H 71/24 (2006.01); **H01F 7/08** (2006.01); **H01F 7/127** (2006.01); H01H 71/16 (2006.01)

CPC (source: EP KR US)

H01F 7/127 (2013.01 - EP KR US); **H01H 71/10** (2013.01 - KR US); **H01H 71/161** (2013.01 - KR); **H01H 71/2454** (2013.01 - KR); **H01H 71/2463** (2013.01 - EP KR US); **H01H 71/2481** (2013.01 - EP KR US); H01F 2007/083 (2013.01 - EP KR US); H01H 71/161 (2013.01 - EP US); H01H 71/2454 (2013.01 - EP US)

Citation (search report)

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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)

EP 2544207 A1 20130109; **EP 2544207 B1 20170329**; BR 102012016379 A2 20131203; BR 102012016379 B1 20200929; CN 102867708 A 20130109; CN 102867708 B 20160406; KR 102005976 B1 20190731; KR 20130006327 A 20130116; KR 20160119007 A 20161012; US 2013009732 A1 20130110; US 2013093541 A1 20130418; US 8593240 B2 20131126; US 8754729 B2 20140617

DOCDB simple family (application)

EP 11172627 A 20110705; BR 102012016379 A 20120702; CN 201210233150 A 20120705; KR 20120072889 A 20120704; KR 20160124168 A 20160927; US 201213541015 A 20120703; US 201213706477 A 20121206