

Title (en)
SAFETY RELAY CIRCUIT

Title (de)
SICHERHEITSRELAISSCHALTUNG

Title (fr)
CIRCUIT À RELAIS DE SÉCURITÉ

Publication
EP 2826052 B1 20170104 (DE)

Application
EP 13709093 A 20130312

Priority
• DE 102012004843 A 20120313
• EP 2013055029 W 20130312

Abstract (en)
[origin: WO2013135719A1] The invention relates to a safety relay circuit, in particular having two relay switches (k1, k2) connected in series or in parallel in a load circuit (LN). A switch-position indicating circuit (A1) is associated with the relay switch (k1). An evaluating circuit compares the command input to the relay (k1) with the indication of the indicating circuit (A1), whereby error states occurring at the relay switches can be detected.

IPC 8 full level
H01H 47/00 (2006.01); **H01H 9/16** (2006.01); **H02H 1/00** (2006.01)

CPC (source: EP US)
H01H 9/161 (2013.01 - EP US); **H01H 47/00** (2013.01 - US); **H01H 47/002** (2013.01 - EP US)

Citation (examination)
• EP 2256777 A2 20101201 - YAMATAKE CORP [JP]
• US 2001027352 A1 20011004 - MORITA KUNITOSHI [JP], et al

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)
WO 2013135719 A1 20130919; DE 102012004843 A1 20130919; EP 2826052 A1 20150121; EP 2826052 B1 20170104;
US 2015016007 A1 20150115

DOCDB simple family (application)
EP 2013055029 W 20130312; DE 102012004843 A 20120313; EP 13709093 A 20130312; US 201314380579 A 20130312