Title (en)

SUPPRESSION OF OVERVOLTAGE CAUSED BY AN INDIRECT LIGHTNING STRIKE

Title (de)

UNTERDRÜCKUNG VON ÜBERSPANNUNG VERURSACHT DURCH INDIREKTEN BLITZSCHLAG

Title (fr)

SUPPRESSION DE LA SURTENSION CAUSÉE PAR UN COUP DE FOUDRE INDIRECT

Publication

EP 2537258 A1 20121226 (DE)

Application

EP 11709311 A 20110217

Priority

- AT 2392010 A 20100217
- AT 2011000082 W 20110217

Abstract (en)

[origin: WO2011100775A1] A coupling circuit for a bus subscriber (101) on a bus line (102) of a field bus with DC-voltage-free and differential, EIA-485/EIA-422-compliant, signal transmission on the basis of a TTP protocol, in which the two inputs/outputs (108, 109) of a transmission/reception component (104) of the bus subscriber (101) are connected to a first winding of a signal transformer (103) and the two poles of the bus line (102) are connected to a second winding of the signal transformer, and the first winding has a centre tap (107), wherein the centre tap (107) is connected to the local reference-earth potential of the bus subscriber (101) via a capacitor (105), the capacitance of which is at least 100 times the parasitic capacitance (110) of the transformer (103).

IPC 8 full level

H04B 3/28 (2006.01); **H04B 5/00** (2006.01); **H04L 25/02** (2006.01); **H04L 25/08** (2006.01)

CPC (source: EP US)

H04B 3/28 (2013.01 - EP US); **H04B 5/266** (2024.01 - EP US); **H04L 25/0266** (2013.01 - EP US); **H04L 25/0272** (2013.01 - EP US); H03K 17/61 (2013.01 - EP US); H03K 17/691 (2013.01 - EP US); H04B 5/22 (2024.01 - EP US)

Citation (search report)

See references of WO 2011100775A1

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 2011100775 A1 20110825; AT 509840 A2 20111115; AT 509840 A3 20120915; AT 509840 B1 20130315; CN 102934367 A 20130213; EP 2537258 A1 20121226; JP 2013520111 A 20130530; US 2013049853 A1 20130228

DOCDB simple family (application)

AT 2011000082 W 20110217; AT 2392010 A 20100217; CN 201180010177 A 20110217; EP 11709311 A 20110217; JP 2012553144 A 20110217; US 201113579503 A 20110217