

Title (en)
EXPLOSION-PROOF ARRANGEMENT

Title (de)
EXPLOSIONSGESCHÜTZTE ANORDNUNG

Title (fr)
DISPOSITIF ANTIDÉFLAGRANT

Publication
EP 3991258 A1 20220504 (DE)

Application
EP 20734700 A 20200623

Priority
• DE 102019117409 A 20190627
• EP 2020067510 W 20200623

Abstract (en)
[origin: WO2020260286A1] The invention relates to an explosion-proof arrangement (10) with an explosion-proof housing (11) which has a wall opening (23) in a housing wall (12). The wall thickness (d) of the housing wall (12) is so small that it is not possible to form a thread there in order to screw in a connecting body (15) for a line to pass through or for receiving an assembly so as to ensure protection against flame transmission. According to the invention, a connecting body (25), which has a flange (38) with a flange face (39), is inserted into the wall opening (23). The flange face (39) delimits a flameproof gap (58) by way of the housing wall (12). The dimensions of a gap or intermediate space between the connecting body (25) and a boundary face (24) of the housing wall (12), which boundary face delimits the wall opening (23), are not important. The protection against flame transmission can be provided solely by the flameproof gap (58) between the flange face (39) and the housing wall (12).

IPC 8 full level
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F16L 5/04 (2013.01 - EP US); **H02G 3/0616** (2013.01 - EP); **H02G 3/0625** (2013.01 - US); **H02G 3/083** (2013.01 - EP US); **H02G 3/088** (2013.01 - EP US); **H02G 3/22** (2013.01 - EP); **H05K 5/0213** (2013.01 - CN); **F16L 5/06** (2013.01 - EP)

Citation (search report)
• [X] US 3104120 A 19630917 - BRODIE AHLPORT, et al
• [XIA] EP 0778438 A1 19970611 - APPLETON ELECTRIC CO [US]
• [XIA] WO 2016177864 A1 20161110 - EATON PROTECTION SYSTEMS IP GMBH & CO KG [DE]
• See also references of WO 2020260286A1

Designated contracting state (EPC)
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DE 102019117409 A1 20201231; CN 114026970 A 20220208; CN 114026970 B 20240329; EP 3991258 A1 20220504; US 2022316625 A1 20221006; WO 2020260286 A1 20201230

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