

Title (en)

PROTECTIVE HOUSING IN EXPLOSION-PROTECTION-TYPE PRESSURE-PROOF ENCAPSULATION

Title (de)

SCHUTZGEHÄUSE IN DER EXPLOSIONSSCHUTZART DRUCKFESTE KAPSELUNG

Title (fr)

BOÎTIER DE PROTECTION DANS L'EXÉCUTION ANTIDÉFLAGRANTE D'ENCAPSULAGE À L'ÉPREUVE DE LA PRESSION

Publication

**EP 3928390 A1 20211229 (DE)**

Application

**EP 20705195 A 20200214**

Priority

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- EP 2020053901 W 20200214

Abstract (en)

[origin: WO2020169471A1] The invention relates to a protective housing (10) in explosion-protection-type pressure-proof encapsulation. Preferably at least one device (19, 36, 38, 39) for reducing explosive pressure is associated with the housing (10). The housing (10) comprises a first housing part (11) having a first sealing surface (13) and a second housing part (12) having a second sealing surface (14), wherein, when the housing (10) is in the closed pressure-proof state, a resilient seal (32) is held between the first sealing surface (13) and the second sealing surface (14) so as to be elastically deformed, and, as a result, closes the space (26) between the first sealing surface (13) and the second sealing surface (14) in a flame-proof manner in the event of an explosion inside the housing (10). The flame-proof arrangement according to the invention can replace a planar gap between, for example, a surface of a cover and a surface of a housing part, which gap requires conformity to relatively narrow manufacturing tolerances.

IPC 8 full level

**H02B 1/28** (2006.01); **A62C 4/00** (2006.01); **H01H 9/04** (2006.01); **H05K 5/06** (2006.01)

CPC (source: EP US)

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Citation (examination)

- WO 2020160937 A1 20200813 - R STAHL SCHALTGERÄTE GMBH [DE]
- KRISTIN BREUNIG ET AL: "Flügeltüren für den Ex-Bereich", 22 January 2019 (2019-01-22), XP055673029, Retrieved from the Internet <URL:https://www.process.vogel.de/fluegeltueren-fuer-den-ex-bereich-a-792371/> [retrieved on 20200303]
- See also references of WO 2020169471A1

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Designated extension state (EPC)

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