

Title (en)

EXPLOSION-PROOF ASSEMBLY FOR ELECTRICAL AND/OR ELECTRONIC COMPONENTS

Title (de)

EXPLOSIONSGESCHÜTZTE ANORDNUNG FÜR ELEKTRISCHE UND/ODER ELEKTRONISCHE BAUELEMENTE

Title (fr)

ENSEMBLE PROTÉGÉ CONTRE LES EXPLOSIONS POUR COMPOSANTS ÉLECTRIQUES ET/OU ÉLECTRONIQUES

Publication

**EP 3087313 B1 20180228 (DE)**

Application

**EP 14771322 A 20140920**

Priority

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- EP 2014070065 W 20140920

Abstract (en)

[origin: WO2015055381A1] The invention relates to an explosion-proof assembly (10) for encapsulating at least one electrical and/or electronic component (11) that is arranged on a carrier surface (12) of a carrier (13). The explosion-proof assembly (10) achieves the explosion protection in accordance with a pressure-resistant encapsulation and/or a potting encapsulation. At least one accommodating chamber (18) for the at least one component (11) is present in a covering body (17). The accommodating chamber (18) is surrounded by a circumferential contact surface (26), which adjoins the opening (21) of the accommodating chamber (18). The contact surface (26) can be present, for example, on a circumferential flange (25). The assembly (10) has an elastic coupling element (30), which is arranged between the contact surface (26) of the covering body (17) and the carrier surface (12) of the carrier (13). A releasable force-closed and/or form-closed connection is established between the covering body (17) and the carrier (13) by means of a plug connection device and/or detent connection device (43). When the connection has been established, the elastic coupling element (30) is elastically deformed and causes a coupling force (K) between the contact surface (26) and the carrier surface (12). Reliable sealing of the accommodating chamber (18) or rather of the joint between the covering body (17) and the carrier (13) is thereby ensured in order to achieve the explosion protection.

IPC 8 full level

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