

Title (en)  
EXPLOSION-PROOF ARRANGEMENT AND METHOD FOR PRODUCING THE SAME

Title (de)  
EXPLOSIONSGESCHÜTZTE ANORDNUNG UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)  
DISPOSITIF ANTI-EXPLOSION ET SON PROCÉDÉ DE FABRICATION

Publication  
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Application  
**EP 16735655 A 20160705**

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Abstract (en)  
[origin: WO2017016820A1] The invention relates to an explosion-proof arrangement (20). The arrangement (20) has a feed-through part (23) having a feed-through opening (24), which is limited by a feed-through surface (25). A structural unit (29) is arranged in the feed-through opening (24). The structural unit (29) has a deformable inner body (31) having at least one line channel (32) that in a longitudinal direction (L) completely passes therethrough, said line channel being enclosed by a plastically deformable connection sleeve (30) in a circumferential direction (U) around the longitudinal direction (L). At least one conductor (22) of a line (21) is led through an assigned line channel (32) in the inner body (31). A connecting portion (33) of the connection sleeve (30) is plastically deformed so that it presses radially inwards onto the inner body (31), thus deforming the same in a radial direction (R) radially to the longitudinal direction (L). On the plastically deformed connecting portion (33), a first boundary surface (35) is formed on the outer circumference. The lead-through surface (25) forms a second boundary surface (36). By arranging the structural unit (29) with the first boundary surface (35) in the lead-through opening (24), an ignition spark resistant ex-gap (37) is created between the two boundary surfaces (35, 36).

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