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SEMRAU et al.(10) **Pub. No.: US 2022/0361344 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **EXPLOSION-PROOF HOUSING WITH A
REINFORCING FRAME****H05K 5/03** (2006.01)**A62C 3/16** (2006.01)(71) Applicant: **R. STAHL SCHALTGERÄTE
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The invention relates to an explosion-proof housing (10) with a housing body (11) which delimits an interior (13) and has a housing opening (14). The housing opening (14) can be closed by means of a cover (17). In the closed position of the cover (17), a flameproof gap (18) is formed between the housing body (11) and in particular a housing flange (15) of the housing body (11) and the cover (17). The housing body (11) has a plurality of housing walls (12), which have such a low wall thickness (s) that the housing walls (12) would not withstand the pressure of an explosion in the interior (13). The housing body (11) is therefore reinforced by a reinforcing frame (30) arranged outside the interior (13). The reinforcing frame (30) has a ring frame part (31) that is arranged adjacently to the housing opening (14) and fully surrounds the housing body (11) in an annular fashion. In particular, the ring frame part (31) directly adjoins the housing flange (15).

