

Title (en)  
PRESSURE EQUALIZATION DEVICE, METHOD FOR PRESSURE EQUALIZATION, AND HOUSING, IN PARTICULAR BATTERY HOUSING

Title (de)  
DRUCKAUSGLEICHSEINRICHTUNG, VERFAHREN ZUM DRUCKAUSGLEICH UND GEHÄUSE, INSBESONDERE BATTERIEGEHÄUSE

Title (fr)  
DISPOSITIF D'ÉQUILIBRAGE DE PRESSION, PROCÉDÉ D'ÉQUILIBRAGE DE PRESSION ET BOÎTIER, EN PARTICULIER BOÎTIER DE BATTERIE

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Abstract (en)  
[origin: WO2022112036A1] The invention relates to a pressure equalization device (10) for a housing, in particular for a battery housing, having a main body (12), through which flow can pass, and having a closure element (32), wherein, in a normal operating state, a flow path (36) is opened up between the main body (12) and the closure element (32), and a flow opening (24) in the main body (12), which flow opening (24) is situated in the flow path (36), is spanned by a membrane (26), and wherein the pressure equalization device (10) is configured to change over to an emergency operating state after an emergency venting operation, in which emergency operating state the closure element (32) closes the main body (12). The invention furthermore relates to a housing having such a pressure equalization device (10). The invention furthermore relates to a method for pressure equalization between an interior space of such a housing and an environment (16), having the steps of performing an exchange of gas between the interior space (14) of the housing (18) and the surroundings through the membrane (26) and between the closure element (32) and the main body (12); performing an emergency venting operation; and closing the main body (12) by means of the closure element (32).

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