

ABSTRACT

The device according to the invention is used for closing openings in protective structures, which are subject to the action of dynamic loads with high, short-duration load peaks and/or a very rapid load rise. The device is also suitable for the closing or sealing of rooms, where explosions or other mechanical violent actions are to be expected and for the safe and reliable enclosing or sealing in of the actions and subsequent effects of such events. In the case of the device according to the invention the closure element (2, 3) closing the opening is supported by elastoplastic shock absorbers (1) with respect to support areas of the protective structure (10). Preferably guides (9) are provided with regards to the displacement of the closure element expected in the case of a load. The inventive structure can be in the form of a hinged, rolling or sliding door and can optionally even be gas-tight. It can also be constructed so as to act in opposite load directions. Elastoplastic locking means and clearances between the door leaf and door frame preferably ensure that the closure element is protected against the effects of a shock, occurring during an explosion, or during an earthquake or the like.

(Fig. 1)