

Title (en)  
PRESSURE VESSEL FOR STORING A FLUID

Title (de)  
DRUCKBEHÄLTER ZUM SPEICHERN EINES FLUIDES

Title (fr)  
RÉCIPIENT SOUS PRESSION POUR LE STOCKAGE D'UN FLUIDE

Publication  
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Application  
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Abstract (en)  
[origin: CA2804876A1] The invention relates to a pressure vessel for storing a fluid, having a plastic core vessel and having an outer casing (6) which is applied to the plastic core vessel (1), the outer casing (6) having: a first fibre-reinforced armouring (4) with one or more wound layers (3; 7) comprising first fibres, which layers are embedded in a first matrix material, a second fibre-reinforced armouring (5) which is formed at the outside in relation to the first armouring (4) and which is formed with one or more wound layers (13; 14; 15; 19) comprising second fibres, wherein the second fibres optionally differ from the first fibres and are embedded in a second matrix material which optionally differs from the first matrix material, and a shock-absorbing armouring thickening in a pole cap region (16), specifically the transition region between the end side (8) and the periphery (2) of the plastic core vessel (1), and optionally adjacent thereto, wherein the shock-absorbing armouring thickening is formed by virtue of one or more wound layers (14; 15), which are thickened at the pole cap, in the first and/or the second armouring (4, 5) being formed with an end-side opening which is larger than the end-side opening of wound layers (7, 13, 19), which are not thickened at the pole cap, in the first and/or the second armouring (4, 5).

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