

Title (en)
PRESSURISED CONTAINER

Title (de)
DRUCKBEHÄLTER

Title (fr)
RECIPIENT SOUS PRESSION

Publication
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Application
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Abstract (en)
[origin: WO2004072542A1] The invention can be used for the pressurised storage of gases. The aim of the invention is to provide a pressurised container consisting of fibre-reinforced plastic with flat or practically flat lids. To achieve this, wound axially aligned reinforcement structures run through the interior of the body and absorb the major part of the required forces on their plane of alignment. The invention is characterised in that fibre strands are distributed uniformly over the cross-sectional surface of the cylindrical pressurised container, are aligned axially and fixed to flat or practically flat lids. In one advantageous embodiment of the invention, a container is formed by the spiral winding of an essentially unidirectional fibre-layer, which is thicker at its edges. Reinforcement layers, which are arranged in a circumferential direction and exert a radial action, cover the reinforcement strands or the spirally wound unidirectional fibre-layer, said layers forming the casing of the pressurised container.

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