

Title (en)

Split tank assembly with reinforcement in the region of a joint and method of making such a reinforced split tank assembly.

Title (de)

Geteilter Tank mit Verstärkung im Gebiet der Verbindung und Verfahren zur Herstellung des Tanks.

Title (fr)

Réservoir en parties assemblées avec renforcement dans la région d'un joint d'assemblage et méthode de fabrication dudit réservoir.

Publication

EP 0033598 A2 19810812 (EN)

Application

EP 81300174 A 19810115

Priority

US 11335180 A 19800118

Abstract (en)

There are disclosed a split tank assembly with reinforcement in the region of a joint, and a method of making such a reinforced split tank assembly. Of particular interest is the possibility of releasably coupling tank sections 11 and 12 formed, for instance, by transversely splitting a bag-moulded, reinforced tank. The assembly includes external circumferential clamping flanges 13 and 14 which are conveniently provided by level winding a relatively narrow band of resin-impregnated filaments on the sidewall of the pressure vessel adjacent the midsection of the vessel. The resin in the filaments is cured and the band and vessel are cut into a plane perpendicular to the longitudinal axis of the vessel so that band parts 13 and 14 are provided adjacent each open mouth of the resulting tank sections 11 and 12 and those band parts constitute the aforementioned clamping flanges. A circumferential, outwardly facing recess 18 is machined in a one-band part 13 and an O-ring groove 19 is machined in that outwardly facing recess 18. A circumferential, inwardly facing recess 22 is machined in the other band part 14 and an O-ring 28 is provided in the O-ring groove 19. The band parts 13 and 14 are telescoped together to form a pressure vessel with the O-ring 28 pressed between the recesses 18 and 22. The band parts are clamped together by clamps 23 to form the assembly. The arrangement described above provides in an uncomplicated manner a means of providing reinforcement in the zones in which clamping is to occur.

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