

Title (en)

TANK MADE OF A CORROSION-RESISTANT COMPOSITE

Title (de)

AUS EINEM KORROSIONSFESTEN VERBUNDSTOFF HERGESTELLTER TANK

Title (fr)

CUVE EN MATERIAU COMPOSITE RESISTANT A LA CORROSION

Publication

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Application

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Abstract (en)

[origin: WO2007083029A2] The present invention relates to a tank that can be used for holding corrosive liquids, for example for the production of hot water, the wall of which is insensitive to chemical attack and more particularly to oxidation and to chlorine. The subject of the invention is a tank having a composite wall that comprises a steel outer shell, a metal or ceramic intermediate layer and an inner layer based on a thermoplastic polymeric compound. Advantageously, the polymeric compound includes polar groups of electronegative character. Such a composite wall may for example comprise a steel outer shell, an aluminium intermediate layer and an inner layer made of maleic anhydride-modified polypropylene. Also claimed is a process for manufacturing a composite-wall tank, called "rotocoating", which consists in depositing, by known techniques, a metal or ceramic coating on the inner face of a steel shell so as to form an intermediate layer and then in melting the polymeric powder compound in the metallized shell rotated by a biaxial rotation system until the formation of a continuous polymeric layer, which solidifies on cooling.

IPC 8 full level

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