

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

EP 1993923 B1 20090624 (FR)

Application

EP 07718014 A 20070119

Priority

- FR 2007000098 W 20070119
- FR 0600506 A 20060120

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

B65D 25/14 (2006.01); **C09D 151/06** (2006.01); **F24H 1/18** (2006.01)

CPC (source: EP)

B65D 25/14 (2013.01); **F24H 1/183** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2896489 A1 20070727; FR 2896489 B1 20080425; AT E434572 T1 20090715; CN 101389539 A 20090318; DE 602007001390 D1 20090806; EP 1993923 A2 20081126; EP 1993923 B1 20090624; MA 30215 B1 20090202; TN SN08307 A1 20091229; WO 2007083029 A2 20070726; WO 2007083029 A3 20070927

DOCDB simple family (application)

FR 0600506 A 20060120; AT 07718014 T 20070119; CN 200780006659 A 20070119; DE 602007001390 T 20070119; EP 07718014 A 20070119; FR 2007000098 W 20070119; MA 31168 A 20080811; TN SN08307 A 20080721