

Title (en)

ASSEMBLY FOR THE FORMATION OF A MODULAR TANK AND MODULAR TANK

Title (de)

SATZ ZUR BILDUNG EINES MODULARTANKS UND MODULARTANK

Title (fr)

ENSEMBLE POUR LA FORMATION D'UN RÉSERVOIR MODULAIRE ET RÉSERVOIR MODULAIRE

Publication

**EP 4201841 A3 20231011 (EN)**

Application

**EP 22216002 A 20221222**

Priority

IT 202100032441 A 20211223

Abstract (en)

The present invention relates to an assembly for the formation of a modular tank (10) for containing a fluid, said assembly (10) comprising a first half-shell (1), and a second half-shell (2), each half-shell (1; 2) providing a body having a bottom wall and side walls ending in a terminal edge (11; 21) for coupling at a horizontal coupling plane (X) with the terminal edge (21; 11) of the other half-shell (2; 1). Said assembly (10) also comprises a gasket (4) that can be interposed between said two half-shells (1, 2) at the terminal edges (11, 21), and fastening means (6, 7, 8) for securing together said half-shells (1, 2) and prevent their movement along a vertical axis (y) perpendicular to the horizontal plane (X). Each half-shell (1; 2) at its respective terminal edge (11, 21) provides one or more protruding external flanges (12; 16; 22; 26), and each half-shell (1; 2) further provides a plurality of vertical extensions (13; 17; 23; 27) arranged externally on the respective terminal edge (11; 21) projecting along said vertical axis (y) in the opposite direction to the body of the respective half-shell (1; 2). Said assembly (10) is characterised in that each vertical extension (13; 17; 23; 27) of each half-shell (1; 2) has at least one portion parallel to said vertical axis (y), in that each semi-shell (1; 2) provides a plurality of housing seats, each housing seat being arranged externally on the respective terminal edge (11; 21) and corresponding to the interspace between two vertical extensions (13; 17; 23; 27) of the same half-shell (1; 2), said interspace having no vertical extensions. Said assembly (10) is configured in such a way as to assume an assembled tank configuration by coupling together said two half-shells (1, 2) with their respective terminal edges (11, 21) in correspondence with said horizontal plane (X), arranging the vertical extensions (13; 17; 23; 27) of a first half-shell (1; 2) alternately to the vertical extensions (23; 27; 13; 17) of the second half-shell (2; 1) and so as to be projecting towards the mutual half-shell (2; 1) in such a way that each vertical extension (23; 27; 13; 17) of a half-shell (1; 2) fits into the respective space between two vertical extensions (23; 27; 13; 17) of the mutual half-shell (2; 1) so as to be adjacent to the side wall of the body of the mutual half-shell (2; 1), interposing said gasket (4) and securing together said one or more protruding external flanges (12; 16; 22; 26) of the two half-shells (1, 2) by means of said fastening means (6, 7, 8).

IPC 8 full level

**B65D 88/06** (2006.01); **B65D 90/08** (2006.01)

CPC (source: EP)

**B65D 88/06** (2013.01); **B65D 90/08** (2013.01)

Citation (search report)

- [I] DE 9416968 U1 19941215 - DUROTHERM KUNSTSTOFFVERARBEITU [DE]
- [A] JP S5099508 U 19750818
- [AD] US 8740005 B1 20140603 - HOLBROOK PAUL R [US], et al
- [AD] US 7854338 B2 20101221 - GRAF OTTO P [DE]
- [A] EP 0064310 A2 19821110 - AG INT SPA [IT]
- [AD] US 4333580 A 19820608 - SWEIGART JR ROBERT L
- [A] JP S5830971 A 19830223 - SHOWA RUBBER
- [A] JP S50104213 U 19750827
- [A] JP 2008144911 A 20080626 - THREE BOND CO LTD
- [A] WO 2011086478 A1 20110721 - SONDERHOFF CHEMICALS GMBH [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4201841 A2 20230628; EP 4201841 A3 20231011; IT 202100032441 A1 20230623**

DOCDB simple family (application)

**EP 22216002 A 20221222; IT 202100032441 A 20211223**