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(54) Title: PREFABRICATED AND MODULAR STORAGE TANKS FOR STORING WATER OR OTHER LIQUIDS

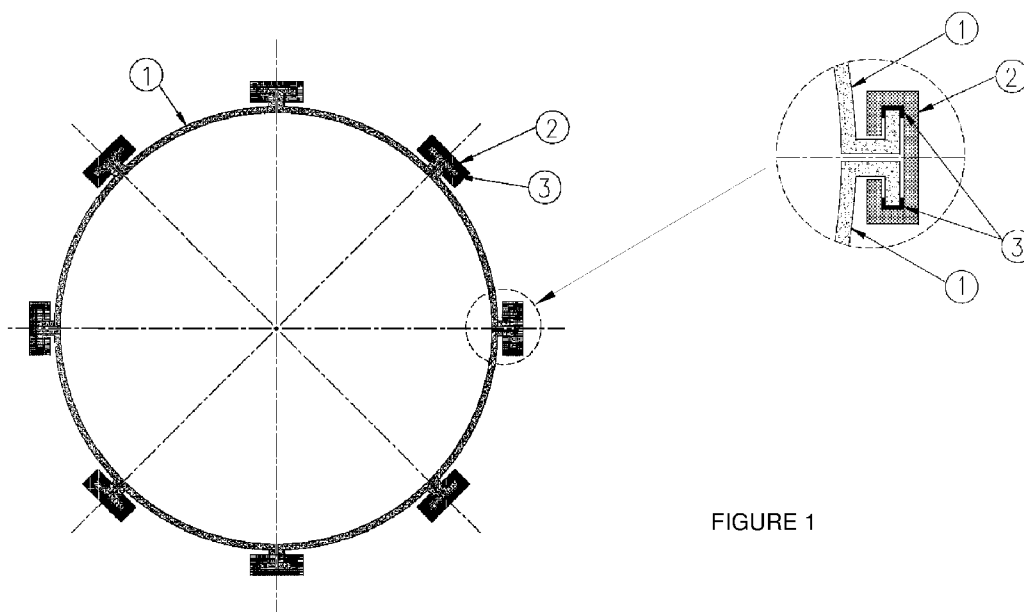


FIGURE 1

(57) Abstract: The present invention relates to prefabricated and modular liquid storage tanks developed for storing drinking water, water used for utility, industrial, fire, agricultural purposes, waste waters and chemical liquids. With the present invention it is aimed to counter the peripheral forces occurring due to the water pressure via the side body panels manufactured to engage with each other, and to transfer said forces from one panel to the other through said engaging connections. The gaskets between the engaging connections of the side body panels of the prefabricated and modular storage tanks for water and other liquids, and the gaskets at the junctures of the side panel-storage base plate or side panel-impermeable flat ground are tightened by water pressure, peripheral forces occurring due to water pressure or by the weight of the body panels and they provide impermeability under water pressure thanks to their shapes and structures. In models with inner cover, the peripheral load is carried by the body panels and permeability is provided by the inner cover.



TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No
PCT/TR2017/050192

A. CLASSIFICATION OF SUBJECT MATTER
INV. B65D90/02 B65D88/08 B65D90/08
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 26 18 318 A1 (BISSINGER GEB SINN WILMA) 3 November 1977 (1977-11-03) page 6, line 17 - page 9, line 5; figures 1-4	1-3
X	----- AU 21576 67 A (THOMAS LAURIE PERREAU) 13 November 1969 (1969-11-13) page 3, line 18 - page 8, line 17; figures 1-6	1-3
A	----- DE 16 09 396 A1 (PANODUZ ANSTALT) 11 June 1970 (1970-06-11) page 9, line 3 - page 14, line 14; figures 1-6 ----- -/--	1-3

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2008/154697 A1 (GRAM ENGINEERING PTY LTD [AU]; MANN RON [AU]) 24 December 2008 (2008-12-24) page 6, line 25 - page 12, line 23; figures 1-6 -----	1-3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/TR2017/050192

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-3

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3

A prefabricated and modular storage tank for water or other liquids, wherein the tank comprises type A body panels which have edges that are cornered or folded (bent) to a rounded U shape, and which engage with the hooked end corner guide clamps, corner guide clamps which transfer the force between Type A Panels, which has a cornered or rounded U-section, inward-bent ends and straight or rounded comers, a sealing gasket which is placed between the corner guide clamp and the body panel, which provides impermeability by swelling under water pressure or tightening under the forces occurring due to water pressure and under the forces applied during assembly.

2. claims: 4-7

A prefabricated and modular storage tank for water or other liquids, wherein the tank comprises; type B single type body panels which have one edge folded (bent) inwards and the other folded (bent) outwards, a single type body panel gasket which provides impermeability by swelling between single type body panels or by tightening under the forces occurring due to water pressure and under the forces applied during assembly.

3. claims: 8-23

A prefabricated and modular storage tank for water or other liquids, wherein the tank comprises; a type C 1 tank body panel with hooks on the outside of both edges (folded/bent outwards), a type C2 tank body panel with hooks on the inside of both edges (folded/bent inwards), a sealing gasket between Type C1 and Type C2 Body Panels which provides impermeability by swelling between Type C 1 and Type C2 body panels or by tightening under the forces occurring due to water pressure and under the forces applied during assembly.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/TR2017/050192

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 2618318	A1	03-11-1977	NONE
AU 2157667	A	13-11-1969	NONE
DE 1609396	A1	11-06-1970	BE 688239 A 16-03-1967 CH 455212 A 28-06-1968 DE 1609396 A1 11-06-1970 DK 124832 B 27-11-1972 FI 46287 B 31-10-1972 FR 93752 E 16-05-1969 GB 1168837 A 29-10-1969 IL 26645 A 26-05-1971 NL 6614535 A 17-04-1967 NO 121064 B 11-01-1971 OA 2157 A 05-05-1970 SE 319889 B 26-01-1970 US 3448554 A 10-06-1969
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