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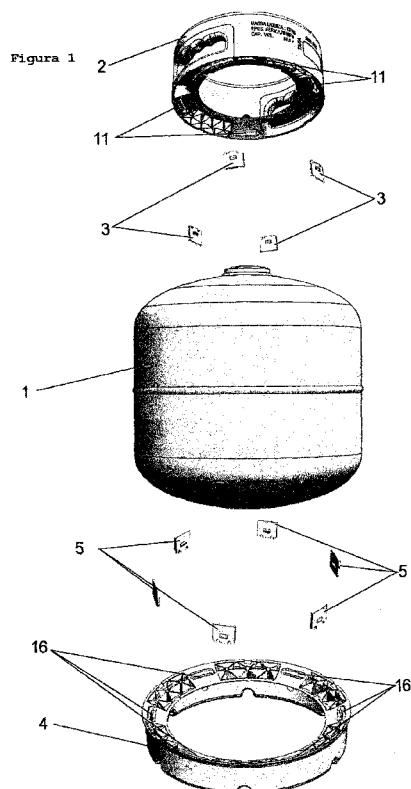
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[Continued on next page]

- (54) Title: REPLACEABLE HANDLE AND SUPPORT/BASE RING ELEMENTS FOR A PRESSURIZED CONTAINER AND PRESSURIZED CONTAINER



(57) Abstract: The present invention refers to replaceable upper or handle (2) and lower or support/base ring (4) elements for a pressurized container having an upper portion and a lower portion, wherein said upper and lower rings elements are manufactured from a thermostable material, a thermosetting material or a combination thereof, e.g. polyurethane, and comprise fastening means to releasably engage the ring elements with projections (3, 5) provided on the upper and lower portions of said pressurized container. The invention also refers to a pressurized container having said replaceable ring elements.



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, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No

PCT/BR2012/000215

A. CLASSIFICATION OF SUBJECT MATTER

INV. F17C13/00 F17C13/08
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)

F17C

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 298 16 750 U1 (SCHAEFER WERKE GMBH [DE]) 17 December 1998 (1998-12-17) the whole document	1,8,9
X	GB 2 001 032 A (HACKMAN AB OY) 24 January 1979 (1979-01-24) the whole document	1-4,8,9
X	EP 1 744 093 A2 (AYGAZ ANONIM SIRKETI [TR]) 17 January 2007 (2007-01-17) paragraphs [0015], [0043]; figures 1-17	1-4,8,9
X	FR 2 829 558 A1 (GAZ LIQUIFIES IND AYANT POUR S [FR]) 14 March 2003 (2003-03-14) page 5; figures 1-7	1-4,8,9



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

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"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

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

19 September 2012

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14/01/2013

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/BR2012/000215

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.:

1-4, 8, 9

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: 1-4, 8, 9

A replaceable upper or handle and lower or support/base ring elements for a pressurized container as defined by claim 1, further comprising details of the fastening means of the handle and of the base ring.

The problem to be solved is to achieve the effect of fixing the handle and the base ring on the pressure container.

2. claim: 5

A replaceable upper or handle and lower or support/base ring elements for a pressurized container as defined by claim 1, wherein the handle or the base ring comprises recessed portions on their edges contacting the pressurised container.

The problem to be solved is to achieve the effect of draining water or other liquids that may fall over upon the container.

3. claim: 6

A replaceable upper or handle and lower or support/base ring elements for a pressurized container as defined by claim 1, wherein the handle or the base ring comprises two external side areas.

The problem to be solved is to achieve the effect of receiving labels identifying the technical data of the container.

4. claim: 7

A replaceable upper or handle and lower or support/base ring elements for a pressurized container as defined by claim 1, wherein the handle or the base ring is formed with an earth pin to connect the pressurized container to the soil

The problem to be solved is to achieve the effect of unloading static load.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/BR2012/000215

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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