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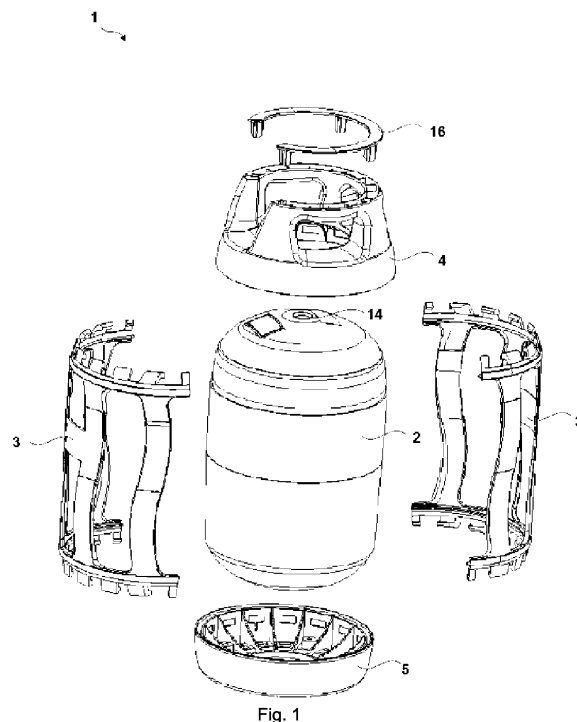
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(54) **A cylinder**

(57) This invention relates to the assembly of pressure cylinders used for the transportation and storage of liquefied petroleum gas or other hydrocarbons. The cylinder of the present invention comprises, fundamentally, a body inside which especially liquefied petroleum gas is carried and stored, and which is manufactured of a composite material; a regulator for the gas to exit; a valve; a handle which enables it to be carried easily by the user; a lid placed on the handle; a base which enables its standing in balance; at least one central piece which connects the handle and the base around the composite body in order to fix them on the cylinder, gives an aesthetic appearance to the transparent body and has the optimum surface area to enable easy evaporation of the gas inside the cylinder; and characterised by pawls placed on the upper and lower sides of the central piece and have a form to be able to locked into the corresponding pockets on the handle and the base, are preferably in the form of a semi-arrow and are sufficient in numbers to provide sufficient strength so as to allow mechanical assembly.



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EUROPEAN SEARCH REPORT

Application Number
EP 06 11 4964

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 98/34063 A1 (RAUFOSS COMPOSITES AS [NO]; JENSEN GAUTE [NO]) 6 August 1998 (1998-08-06)	1,2	INV. F17C13/08 F17C1/14
Y	* abstract; figures 1-11 * * page 2, lines 11-20 * * pages 4-8 *	1,2	
Y	----- WO 01/59358 A1 (AMTROL INC [US]) 16 August 2001 (2001-08-16) * abstract * * pages 6-8; figures 4,5 *	1,2	
Y	----- US 3 788 511 A (MARSH R) 29 January 1974 (1974-01-29) * figures 1-8 *	1	
Y	----- FR 2 707 369 A1 (SCHNEIDER IND [FR]) 13 January 1995 (1995-01-13) * abstract; figures 1-6 *	1	

			TECHNICAL FIELDS SEARCHED (IPC)
			F17C
5 The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		13 September 2010	Nicol, Boris
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1, 2

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1, 2

Cylinder according to claim 1 further comprising a central piece with edge ribs.

2. claim: 3

Cylinder according to claim 1 further comprising a central piece with pin holes.

3. claim: 4

Cylinder according to claim 1 further comprising a central piece with aesthetic bands on the outside.

4. claims: 5-9

Cylinder according to claim 1 further comprising a handle having pockets.

5. claims: 10, 11

Cylinder according to claim 1 further comprising a lid carrying information relating to properties of LPG, security warnings.

6. claims: 12-15

Cylinder according to claim 1 further comprising a base enabling standing upright and being stacked on top of each other.

7. claim: 16

Cylinder according to claim 1 further comprising internal pieces made of polymers.

8. claim: 17

Cylinder according to claim 1 further comprising a body of cylinder made of aluminium or steel.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-09-2010

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