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(71) Applicant: Denby, Carl
Selby, North Yorkshire YO8 4HL (GB)

(72) Inventor: Denby, Carl Selby, North Yorkshire YO8 4HL (GB)

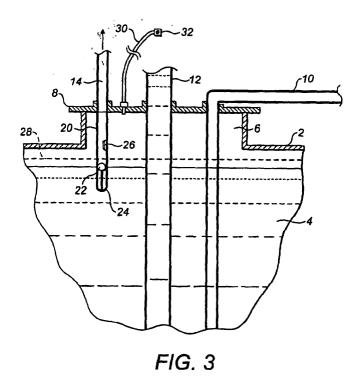
 (74) Representative: Spaargaren, Jerome et al Electronic Intellectual Property, Suite 308, The Foundry, 156 Blackfriars Road London SE1 8EN (GB)

(54) Method and apparatus for refilling liquid storage tanks

(57) A method of refilling a liquid storage tank (2), said method comprising providing:

a gaseous outlet (14) for removing gaseous content from the tank during delivery of liquid to the tank; a fluid flow restrictor (20) arranged to restrict flow through said gaseous outlet in response to a filling condition within the tank exceeding a threshold level: and

pressure sensitive means (30) fluidly connected to the interior of the tank for sensing a build up of pressure within the tank in response to operation of said fluid flow restrictor.





EUROPEAN SEARCH REPORT

Application Number EP 04 25 2574

	DOCUMENTS CONSID	ERED TO BE RELEVANT	·		
Category	Citation of document with ir of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
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Y	US 4 083 387 A (STI 11 April 1978 (1978 * column 1, line 9	EBER ALBERT ET AL) -04-11)	2-5		
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X	GB 2 317 382 A (RIS RISBRIDGER W & J LT 25 March 1998 (1998 * figures 1,2 *		1,6,7, 13-15		
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X	US 5 435 335 A (KLO 25 July 1995 (1995- * column 3, line 7	8-11,16, 17			
X	US 4 630 655 A (SMI 23 December 1986 (1 * figures 1,3 *	LGYS BRUNO S ET AL) 986-12-23) 	12		
	The present search report has	been drawn up for all claims			
	Place of search	Date of completion of the search	'	Examiner	
Munich		29 October 2004	Des	ittere, M	
X : part Y : part doc A : tech O : nor	ATEGORY OF CITED DOCUMENTS ilcularly relevant if taken alone icularly relevant if combined with anotument of the same category phological background packground printine disclosure rediate document	E : earlier patent do after the filling da her D : document cited i L : document cited i 8 : member of the s	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 8: member of the same patent family, corresponding document		

EPO FORM 1503 03.62 (P04C01)



Application Number

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CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims 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 the first ten claims.
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:



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: 1-7,13-15

Liquid tank overfill prevention method whereby a sensor senses the activation of a vent flow restrictor; tank and apparatus therefor.

2. claims: 8-11,16,17

Liquid tank overfill method whereby a main vent is restricted and a secondary vent is activated; tank and apparatus therefor.

3. claim: 12

Liquid flow restrictor with float subjected to an attractive force.

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

EP 04 25 2574

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.

29-10-2004

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FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82