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(54) An improved refrigeration system.

(57) A refrigeration system for a drink dispensing machine consists of a compressor (12) which circulates a refrigerant through a closed circuit including an evaporator coil (20) and a heat exchanger (14). A secondary heat exchanger (18) is mounted within the evaporator coil (20) so as to be cooled thereby and consists of a container (22) through which the liquid, which is to form a drink, is passed. The container (22) is provided adjacent one end with a liquid inlet (24) and adjacent the opposite end with a liquid outlet (26), and baffles (34) are mounted in the container to inhibit the direct flow of liquid between the inlet and the outlet. When carbonated drinks are to be supplied by the drink dispensing machine, a carbonator unit (40) is mounted in the container and the supply of liquid to the carbonator (40) is drawn from the liquid outlet (26) of the container (22) which forms the secondary heat exchanger (18).

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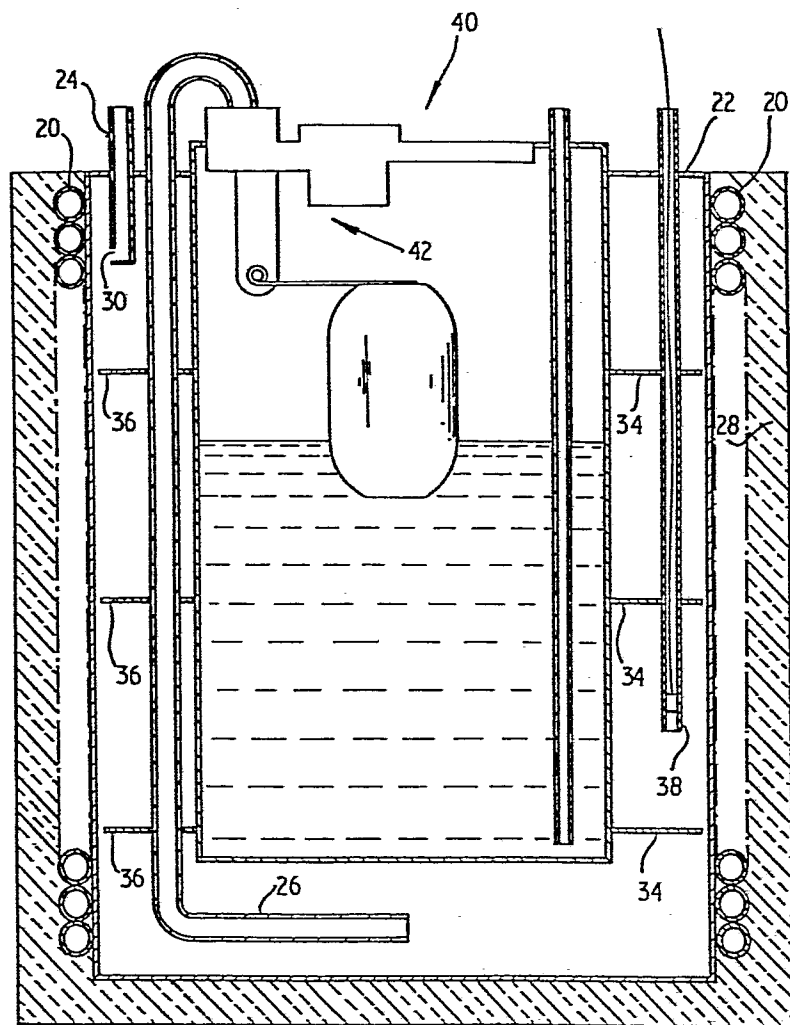


FIG.3.



European Patent
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EUROPEAN SEARCH REPORT

0021771

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<u>GB - A - 901 450 (PORMOR)</u> * Page 2, line 73 - page 5, line 29; figures 1-7 * --	1-5,7	F 25 D 31/00 F 25 B 39/02
X	<u>GB - A - 903 955 (DESSINDECOR)</u> * Page 1, line 66 - page 3, line 68; figures 1,2 * --	1-6	
X	<u>US - A - 3 475 922 (SCOTT)</u> * Column 2, line 43 - column 4, line 58; figures 1-5 * --	1-4,6	TECHNICAL FIELDS SEARCHED (Int. Cl.) F 25 D F 25 B F 28 D F 24 H
X	<u>US - A - 3 479 839 (SCOTT)</u> * Column 2, line 33 - column 4, line 24; figures 1-5 * --	1-4,6	
X	<u>US - A - 3 820 214 (SHOLTES)</u> * Column 2, line 8 - column 4, line 40; figures 1-3 * --	1-4,6	
	<u>FR - A - 1 201 989 (ALTHOS)</u> * Page 1, right-hand column, paragraph 3 - page 2, right-hand column, paragraph 1; figures * --	1-4,6	CATEGORY OF CITED DOCUMENTS X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
	<u>US - A - 2 677 254 (ARENZ)</u> * Column 2, line 39 - column 4, line 48; figures 1-7 * --	1-5,9	
The present search report has been drawn up for all claims			&: member of the same patent family, corresponding document
Place of search The Hague		Date of completion of the search 10-12-1980	Examiner BOETS



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	<u>US - A - 2 638 751</u> (ERWIN) * Column 2, line 16 - column 7, line 26; figures 1-11 *	1,8,9	
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	<u>US - A - 3 788 090</u> (RICHARDS) * Column 2, line 23 - column 9, line 32; figures 1,2 *	1,10	
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A	<u>US - A - 1 972 844</u> (KILLEN)		TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
A	<u>GB - A - 1 473 188</u> (BOC LINDE RE- FRIGERATION)		
A	<u>AU - B - 159 292</u> (BOOTH)		
A	<u>FR - A - 1 035 846</u> (GAUDRY)		
A	<u>DE - C - 962 168</u> (SIEMENS- SCHUCKERTWERKE)		
A	<u>LU - A - 40 639</u> (CONROTTO)		
