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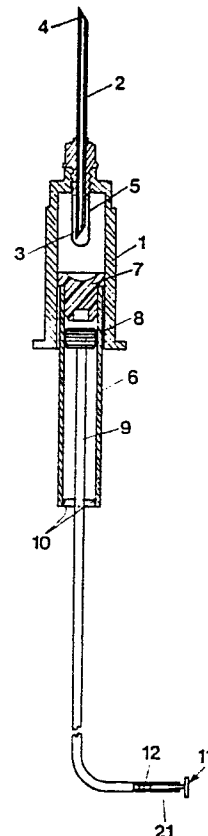
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(54) **Device for transferring a substance between at least two vessels in a closed system.**

(57) An arrangement for a closed system for transferring a liquid from a vessel to a collection container (6) which are attachable to each other via a coupling member (17) with a two sided cannula (2). One end of the collection container (6) is closed by a seal (7) which can be penetrated by the cannula (2). Behind the seal inside the container is a plunger (8) with an axial penetrating canal to which a tube (9) is attached. At the tube end away from the plunger (8) an openable stopper (11) is attached. By axial motion of the plunger (8) in the collection container (6) away from the seal reduced pressure is achieved in the container for sucking up the liquid through the cannula (2). After opening the stopper (11) the liquid can be forced out into the tube (9) by axial motion of the plunger toward the seal (7).

FIG 1



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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Y	US-A-4 192 320 (S.S. MEGAHED) * Column 3, lines 10-14; column 3, line 31 - column 5, line 4; figures 4-6; claims 1,2,4 *	1	B 01 L 3/02 G 01 N 15/05 A 61 B 5/14
A	----	6	
Y	DE-A-3 025 800 (H. UFERMANN) * Page 6, lines 1-5; page 15, paragraph 3, line 1 - page 16, paragraph 1, line 16; page 17, lines 12-15; figures 5a-c; claims 1,8-10 *	1	
A	* Page 13, lines 18-23 *	2	
D,A	----	1,2	
A,P	US-A-4 037 464 (B. WENANDER) * Column 1, lines 63-67; column 2, lines 22-41,50-58; column 3, lines 21-44; figures 1,5; claims 1,3 *	1	
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A	WO-A-8 503 350 (TRELL) * Page 4, line 14 - page 5, line 35; page 6, lines 7-31; page 8, line 10 - page 9, line 14; figures 1,4; claims 1,8,10 *	1,2	

A	US-A-4 392 497 (R.U. GHAUSSY) * Column 1, line 58 - column 2, line 13; column 2, lines 24-64; figure 2; claim 1 *		

A	WO-A-8 002 106 (AMERICAN HOSPITAL SUPPLY CORP.) -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11-02-1988	Examiner FORMBY N.M.
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			