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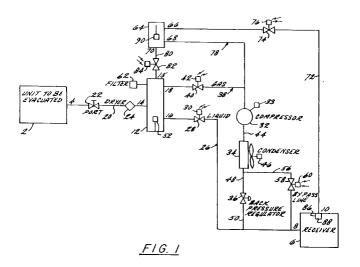
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(54) Apparatus for recovering a refrigerant fluid.

An apparatus for recovering a compressible refrigeration fluid from a refrigeration system (2) and delivering the recovered fluid to a receiver (6) includes a discriminator tank (12) for discriminating between influent liquid phase fluid and gas phase fluid. Liquid phase fluid is directed to the receiver (6). Gas phase fluid is condensed and directed to the receiver (6). The apparatus further includes a

safety tank (64) for preventing overfilling of the receiver (6) and a lightweight compressor (32) particularly adapted to refrigerant recovery. The lightweight compressor includes self lubricating bidirectional seals and renders the recovery apparatus easily transportable to allow convenient field servicing of refrigeration systems.





EUROPEAN SEARCH REPORT

EP 92 11 7430

DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate, Relevant					CT ACCUMICATION OF THE
Category	Citation of document with in of relevant pas			Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Х	US-A-4 981 020 (SCUI		1		F25B45/00 F04B9/02 F04B39/04
Y	* the whole document	*		0,11, 5,16	
Y	EP-A-0 380 302 (SEIS		1	0,11, 5,16	
	* column 4, line 37 figure 1 *	- column 6, line 1	15;		
A	US-A-3 358 914 (MAC)	MILLAN)	1	,6-8, .0,11, .5-17	
	* column 1, line 52 figures *	- column 2, line !	_	15-17	
					TECHNICAL FIELDS SEARCHED (Int. Cl.5)
					F25B
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	CATEGORY OF CITED DOCUME			underlying the	
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