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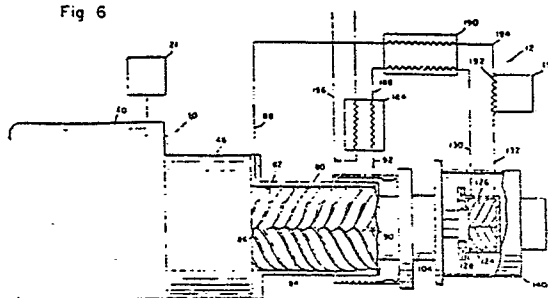
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54 Screw compressor-expander cryogenic system.

57 A screw compressor-expander cryogenic refrigeration system including heat exchangers (184, 190, 192) and operating in a closed Brayton cycle comprises a power driven screw compressor (80, 82, 84) which delivers pressurized refrigerant gas through a closed system to a screw expander (124, 126, 128) in order to produce refrigeration by expansion. The screw expander is rotatively coupled to the compressor.

Fig 6



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EUROPEAN SEARCH REPORT

App. no. 10 03 7

EP 79 10 03 7

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	DE - C - 609 405 (ALLGEMEINE ELEKTRICITÄTS-GESELLSCHAFT) * page 2, lines 106-122; page 3, lines 1-96; figures * --- ASHRAE JOURNAL, Vol. 15, August 1973 NEW YORK (US) SOREN E. EDSTROM: "Helical lobe machines for heating, refrigeration and air conditioning", pages 50-54 * page 53, left-hand column; page 54, left-hand column; figure 7 * --- US - A - 1 673 153 (MAC LAREN) * page 1, lines 40-108; page 2, lines 1-24; figures 1,2 and 3 * --- DE - A - 2 636 024 (MEYER) * page 1; page 2; page 3; page 4; page 5; page 6; page 7; figures 22 to 29 * --- DE - A - 2 230 064 (VILTER MANUFACTURING) * page 4, paragraphs 3 and 4; pages 5-9; figures 3 to 7 * ---	1,2,3, 4,5,11, 12,13, 14,15, 16,17 1 1,2,5, 14,15 1,4,5, 11,12, 14 3,4,5, 10,11, 12,13, 14 ./.	F 25 B 1/04 F 25 B 9/00 F 04 C 27/00 TECHNICAL FIELDS SEARCHED (Int.Cl.) F 25 B F 01 C F 04 C F 16 J 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 &: member of the same patent family, corresponding document
☒ The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
The Hague	18-07-1979	BOETS	



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Application number

EP 79 10 0877

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	
	<u>US - A - 2 804 260</u> (NILSSON) * column 8, lines 27-75; column 9, lines 1-50; figures 13,14 and 15 * --- <u>GB - A - 1 312 698</u> (FERROFLUIDICS) * page 2, lines 73-128; page 3, lines 1-130; figure 4 * ---	2,3,4, 5,6,10, 11,12, 14 7,8,9	TECHNICAL FIELDS SEARCHED (Int. Cl.?)
A	<u>FR - A - 796 274</u> (MILO)		
A	<u>DE - C - 699 427</u> (JULIUS PINTSCH)		
A	<u>US - A - 3 184 155</u> (CROOKS)		
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A	<u>US - A - 1 440 000</u> (BONINE)		
