

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 478 939 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **91114044.0**(51) Int. Cl.⁵: **F25B 1/10, F25B 31/00,
F04C 29/02**(22) Date of filing: **22.08.91**(30) Priority: **03.10.90 IT 2187890 U**(43) Date of publication of application:
08.04.92 Bulletin 92/15(84) Designated Contracting States:
AT BE CH DE DK ES FR GB GR LI LU NL SE(88) Date of deferred publication of the search report:
22.04.92 Bulletin 92/17(71) Applicant: **ING. ENEA MATTEI S.p.A.**
Strada Padana Superiore No 307
I-20090 Vimodrone Milano(IT)(72) Inventor: **Contaldi, Giulio**
Via Dello Sport No. 14
I-20090 San Felice, Segrate, Milano(IT)(74) Representative: **Petruzzelli, Antonio**
Via E. De Amicis No. 25
I-20123 Milano(IT)(54) **Two-stage rotary compressor for refrigerating plants.**

(57) A two-stage rotary compressor for refrigerating plants comprising a first low-pressure compression unit (11) and a second high-pressure compression unit (12), the rotors (13, 14) of which are connected to a single control motor (16) and in which the lubricating oil circuit comprises an intermediate oil chamber (27) connected respectively to the delivery side of the low-pressure compression unit (11) via a first oil separator (22) and to a feeding pump (17) which supplies the lubricating oil to the high-pressure compression unit (12); the oil separated from the high-pressure delivery of the second compression unit (12) in turn supplies the low-pressure compression unit (11).

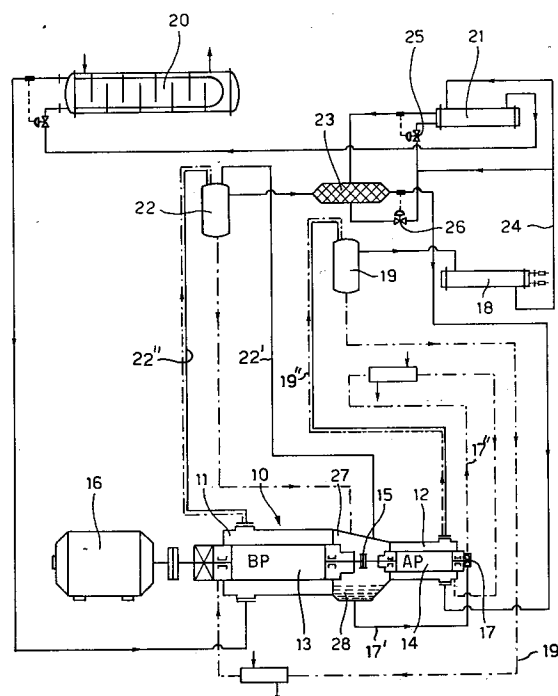


FIG. 1

EP 0 478 939 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 11 4044

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.5)
Y	US-A-3 168 236 (LAMBERTON ET AL.) * column 1, line 70 - column 6, line 18; figures *	1,2	F25B1/10 F25B31/00 F04C29/02
Y	--- PATENT ABSTRACTS OF JAPAN vol. 6, no. 216 (M-168)29 October 1982 & JP-A-57 122 193 (HITACHI) 29 July 1982 * abstract *	1,2	
A	--- GB-A-1 174 370 (STAL REFRIGERATION) * page 1, line 33 - page 2, line 3; figure *	1,2	
A	--- US-A-3 859 815 (KASAHARA) * column 1, line 51 - column 4, line 27; figures *	1,4	
A	--- DE-A-2 230 064 (VILTER MANUFACTURING)		
A	--- FR-A-2 381 983 (VEB KOMBINAT LUFT-UND KALTETECHNIK)		
A	--- US-A-3 226 949 (GAMACHE)		

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 FEBRUARY 1992	Examiner BROMAN B. T.
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	