



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 443 620 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **91102656.5**

(51) Int. Cl.⁵: **F25B 25/02**

(22) Date of filing: **22.02.91**

(30) Priority: **23.02.90 JP 41016/90**

(43) Date of publication of application:
28.08.91 Bulletin 91/35

(84) Designated Contracting States:
DE FR

(88) Date of deferred publication of the search report:
27.11.91 Bulletin 91/48

(71) Applicant: **HITACHI, LTD.**
6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo 100(JP)

(72) Inventor: **Yanadori, Michio**
228, Midoricho
Ryugasaki-chi(JP)

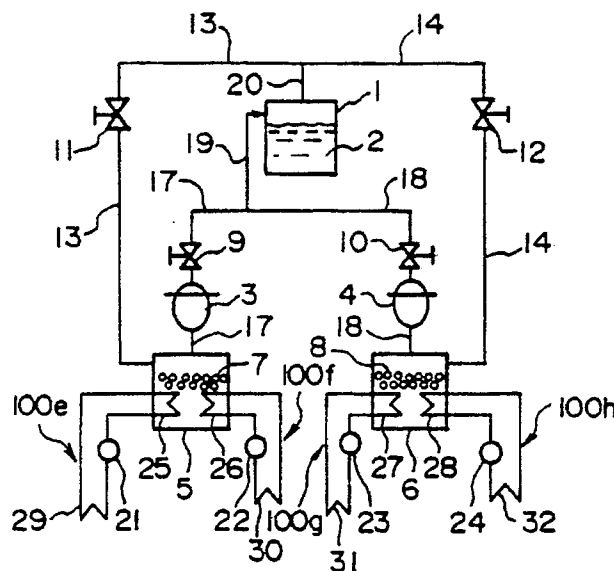
(74) Representative: **Finck, Dieter et al**
Patentanwälte v. Fünér, Ebbinghaus, Finck
Mariahilfplatz 2 & 3
W-8000 München 90(DE)

(54) **Heat pump.**

(57) A heat pump includes a reactor (5) adapted to accommodate a reaction material (7), the reactor (5) including a heat transfer device (100f) for accumulating heat and another heat transfer device (100e) for radiating heat. The reactor (5) communicates to a reservoir (1) adapted to accommodate a reaction

medium (2) through a heat accumulation pipe (17, 19) with a compressor (3) and a valve (9) and a heat radiation pipe (13) with a valve (11) to form a circulating loop. Heat pumps having such a construction may be arranged in parallel.

FIG. 1



EP 0 443 620 A3



European
Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 10 2656

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,A	DE-A-3 610 332 (TOSHIBA) * page 8 - page 19; figure 4 * - - -	1,5,7,11	F 25 B 25/02
Y	US-A-4 183 734 (LEPPARD ET AL.) * column 2 - column 5, line 62; figures * - - -	1,5,7	
A	FR-A-2 470 356 (LE VERRE FLOURE SARL) * page 1 - page 4; figure * - - - - -	1,7,8,11	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 25 B
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		12 September 91	BAECKLUND O.A.
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
Y: particularly relevant if combined with another document of the same category		D: document cited in the application	
A: technological background		L: document cited for other reasons	
O: non-written disclosure		-----	
P: intermediate document		&: member of the same patent family, corresponding document	
T: theory or principle underlying the invention			