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(54) Condensation clothes dryer with a heat pump and auxiliary resistance heater

(57) The invention concerns a condensation clothes dryer with a heat pump and a closed process air circuit that proceeds from a dryer drum and returns to it via an evaporator, blower and a condenser as well as an auxiliary resistance heater. The heat pump circuit for the cold-start, heating and operating phase is automatically

adapted without program-controlled changes in the heat output and without overload protection as follows: The auxiliary resistance heater consists of one or more semiconductor resistors that heat the coolant for the condenser of the heat pump circuit.



EUROPEAN SEARCH REPORT

Application Number EP 01 10 4870

		ERED TO BE RELEVANT	Т	
Category	Citation of document with ir of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
Α	EP 1 154 066 A (WHI 14 November 2001 (2 * the whole documen	001-11-14)	2-5,10,	D06F58/26
A	PATENT ABSTRACTS OF vol. 1998, no. 12, 31 October 1998 (19 & JP 10 192593 A (T 28 July 1998 (1998- * abstract *	98-10-31) OKYO GAS CO LTD),	1	
A	DE 197 38 735 A (BO HAUSGERAETE) 11 Mar * the whole documen	ch 1999 (1999-03-11)	1	
A	CO LTD), 13 Septemb	C-664),		
	* abstract *	MAN MAN SAIR SAIR SAIR.		TECHNICAL FIELDS SEARCHED (Int.CI.7)
				D06F F26B
	The present search report has i	oeen drawn up for all claims		
***************************************	Place of search	Date of completion of the search		Examiner
	THE HAGUE	26 August 2002	Ure	ta, R
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anotument of the same category nological background—written discosure	L : document cited	ocument, but publi ate in the application for other reasons	shed on, or

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 10 4870

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-08-2002

	Patent document cited in search repor	t	Publication date		Patent fam member(nily s)	Publication date
ΕP	1154066	Α	14-11-2001	DE EP	10022608 1154066	C1 A2	25-10-2001 14-11-2001
JP	10192593	Α	28-07-1998	NONE			
DE	19738735	Α	11-03-1999	DE	19738735	A1	11-03-1999
JP	01230398	Α	13-09-1989	NONE			

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82