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# **EUROPEAN PATENT APPLICATION**

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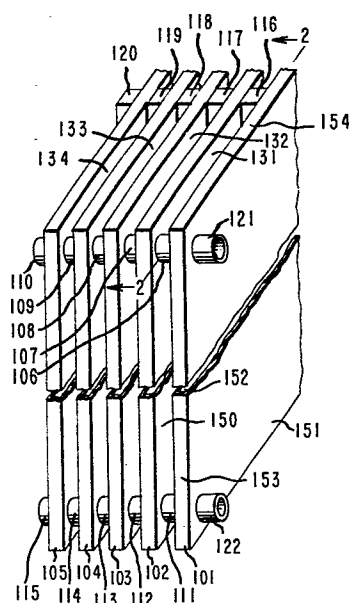
84 Designated Contracting States: **BE DE FR GB IT NL SE**

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54 **Thermoplastic heat exchanger element and heat exchanger comprising said element.**

57 A thermoplastic heat exchanger which comprises individual elements (101–105) made of two sheets (151, 152) of thermoplastic film sealed together at the edges of the sheets, either directly or with edge septa (153, 154) there being protuberances extending from one of the sheets toward the second sheet and which may join to the second sheet. Optionally, the interior of the element may be divided into a plurality of channels by channel septa joined to both sheets (151, 152). Two openings in the element provide access to the interior of the element for introduction and removal of a first fluid to and from the inside of the element. The device is adapted to exchange heat between the first fluid conducted within the sheets and a second fluid in contact with the exterior faces of the sheets.





DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. <sup>3</sup> )
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	<u>GB - A - 107 652 (WOOD)</u> * Page 3, line 30 - page 4, line 24; figures 1-5 * --	1,2,7-9	F 28 F 21/06 3/12
	<u>FR - A - 2 339 830 (ALSTHOM)</u> * Page 3, line 16 - page 4, line 33; figures 1-3 * --	1,2,5,7,10,12	
	<u>US - A - 3 256 930 (NORBACK)</u> * Column 1, line 39 - column 3, line 17; figures 1,2 * --	1,2,4,5,7,8,9	TECHNICAL FIELDS SEARCHED (Int. Cl. <sup>3</sup> )
	<u>FR - A - 2 132 666 (LEYBOLD)</u> * Page 2, paragraph 4; page 3, lines 9-38; figures 1-4 * --	1-4,13	F 28 B F 28 D F 28 F
	<u>FR - A - 2 230 403 (NEMOURS)</u> * Page 6, line 6 - page 7, line 29; page 16, line 33 - page 17, line 13; figures 1-8,28,29,34 * --	1,2,4,5,14,15-17	
A	<u>US - A - 3 280 906 (ROSENBLAD)</u>	1	CATEGORY OF CITED DOCUMENTS
A	<u>US - A - 1 730 139 (HARRISON)</u>	1	X: particularly relevant
A	<u>FR - A - 1 257 712 (BELLIARD)</u>	1	A: technological background
A	<u>FR - A - 1 345 756 (ALFA)</u>	1	O: non-written disclosure
A	<u>FR - A - 2 352 268 (GAYMAR)</u>	1	P: intermediate document
A	<u>GB - A - 1 142 092 (VEB)</u>	1	T: theory or principle underlying the invention
	----		E: conflicting application
			D: document cited in the application
			L: citation for other reasons
<b>b</b> The present search report has been drawn up for all claims			&: member of the same patent family, corresponding document
Place of search The Hague		Date of completion of the search 08-10-1980	Examiner JOHANSSON