

Title (en)

Thermoplastic heat exchanger.

Title (de)

Thermoplastischer Wärmeaustauscher.

Title (fr)

Echangeur de chaleur en matériau thermoplastique.

Publication

EP 0018823 A2 19801112 (EN)

Application

EP 80301414 A 19800430

Priority

US 3509979 A 19790501

Abstract (en)

A thermoplastic heat exchanger which comprises individual elements made of two sheets of thermoplastic film sealed together at the edges of the sheets, either directly or with edge septa, 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. 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.

IPC 1-7

F28F 21/06; **F28F 3/12**

IPC 8 full level

F28D 9/00 (2006.01); **F28F 3/04** (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP)

F28D 9/0043 (2013.01); **F28D 9/0056** (2013.01); **F28F 13/06** (2013.01); **F28F 21/065** (2013.01); **F28F 2250/102** (2013.01)

Cited by

FR2654498A1; FR2970070A1; US4858685A; KR100785650B1; DE3048007A1; EP3724588A4; EP0056705A3; EP0065679A1; FR2702829A1; FR2702830A1; AU600117B2; DE102012013755B4; WO0242704A1; WO8202427A1; WO2012093063A1; WO2019113680A1; US11959708B2; EP0034920B1

Designated contracting state (EPC)

BE DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0018823 A2 19801112; **EP 0018823 A3 19810107**; **EP 0018823 B1 19840718**; CA 1126256 A 19820622; DE 3068579 D1 19840823; DK 187480 A 19801102; JP S55146394 A 19801114; NO 149294 B 19831212; NO 149294 C 19840321; NO 801256 L 19801103

DOCDB simple family (application)

EP 80301414 A 19800430; CA 350849 A 19800429; DE 3068579 T 19800430; DK 187480 A 19800430; JP 5555480 A 19800428; NO 801256 A 19800430