

Title (en)

MODULAR PLATE AND SHELL HEAT EXCHANGER

Title (de)

MODULARE PLATTE UND SCHALENWÄRMETAUSCHER

Title (fr)

ÉCHANGEUR DE CHALEUR À ENVELOPPE ET PLAQUE MODULAIRE

Publication

**EP 2802835 B1 20180905 (EN)**

Application

**EP 13735908 A 20130104**

Priority

- US 201213348832 A 20120112
- US 2013020206 W 20130104

Abstract (en)

[origin: WO2013106240A1] A modular plate and shell heat exchanger in which welded pairs of heat transfer plates are tandemly spaced and coupled in parallel between an inlet and outlet conduit to form a heat transfer assembly. The heat transfer assembly is placed in the shell in order to transfer heat from a secondary to a primary fluid. Modules of one or more of the heat transfer plates are removably connected using gaskets at the inlet and outlet conduits which are connected to a primary fluid inlet and a primary fluid outlet nozzle. The heat transfer assembly is supported by a structure which rests on an internal track which is attached to the shell and facilitates removal of the heat transfer plates. The modular plate and shell heat exchanger has a removable head integral to the shell for removal of the heat transfer assembly for inspection, maintenance and replacement.

IPC 8 full level

**F28F 3/08** (2006.01)

CPC (source: EP)

**F22B 1/023** (2013.01); **F28D 9/0006** (2013.01); **F28D 9/0012** (2013.01); **F28D 9/0043** (2013.01); **F28F 3/046** (2013.01); **F28F 3/083** (2013.01); **F28F 9/26** (2013.01); **F28F 2240/00** (2013.01); **F28F 2275/205** (2013.01); **F28F 2280/02** (2013.01)

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**WO 2013106240 A1 20130718**; BR 112014016949 A2 20200623; BR 112014016949 B1 20210511; CA 2864231 A1 20130718; CA 2864231 C 20200121; CN 104040282 A 20140910; CN 104040282 B 20160824; EP 2802835 A1 20141119; EP 2802835 A4 20160113; EP 2802835 B1 20180905; ES 2699809 T3 20190212; JP 2015505027 A 20150216; JP 6200433 B2 20170920; KR 101962996 B1 20190731; KR 20140112543 A 20140923; MX 2014008117 A 20140827; MX 368753 B 20191015; TW 201339532 A 20131001; TW I593934 B 20170801

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