

Title (en)

Heater for creating steam for a solar thermal power plant

Title (de)

Wärmetauscher zur Dampferzeugung für ein solarthermisches Kraftwerk

Title (fr)

Echangeur thermique destiné à la production de vapeur pour une centrale thermique solaire

Publication

EP 2278220 B1 20140305 (DE)

Application

EP 09008287 A 20090624

Priority

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Abstract (en)

[origin: EP2278220A1] The heat exchanger (1) has a casing (10) for accommodating a casing-side fluid i.e. water. Pipes (20) run inside the casing for a pipe-side fluid i.e. thermo oil or salt, where heat is transmitted from the pipe-side fluid to the casing-side fluid via the pipes. Separation of vaporous water from a liquid phase takes place in a separate steam drum (30) outside the casing. The steam drum is provided with a fresh water inlet, where the steam drum is arranged above the heat exchanger and is coupled to the heat exchanger by rising pipes (31) and fall pipes (33).

IPC 8 full level

F22B 1/00 (2006.01); **F22B 1/02** (2006.01); **F22B 1/16** (2006.01); **F22B 3/02** (2006.01); **F22B 5/00** (2006.01); **F22B 15/00** (2006.01); **F22B 29/06** (2006.01); **F22B 37/26** (2006.01); **F22D 1/20** (2006.01)

CPC (source: EP KR US)

F22B 1/00 (2013.01 - KR); **F22B 1/006** (2013.01 - EP US); **F22B 1/02** (2013.01 - KR); **F22B 1/021** (2013.01 - EP US); **F22B 1/16** (2013.01 - US); **F22B 3/02** (2013.01 - EP KR US); **F22B 5/00** (2013.01 - EP US); **F22B 15/00** (2013.01 - EP US); **F22B 29/06** (2013.01 - US); **F22B 37/26** (2013.01 - US); **F22D 1/20** (2013.01 - US)

Cited by

WO2020069704A1; WO2020253924A1; US11739931B2; CN113994166A

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EP 2278220 A1 20110126; **EP 2278220 B1 20140305**; AU 2010265019 A1 20120119; AU 2010265019 A2 20120119; CN 102483227 A 20120530; ES 2467667 T3 20140612; KR 101399714 B1 20140627; KR 20120055536 A 20120531; US 2013118419 A1 20130516; WO 2010149387 A2 20101229; WO 2010149387 A3 20110929; ZA 201109389 B 20120829

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