

Title (en)

Device for injecting pressurized fluids in a plate-like heat exchanger and process for cleaning this injection device

Title (de)

Anlage zum Druckspritzen von Fluiden in einem Plattenwärmetauscher und Verfahren zur Reinigung dieser Druckspritzanlage

Title (fr)

Dispositif d'injection de fluides sous pression dans un échangeur thermique à plaques et procédé de nettoyage d'un tel dispositif d'injection

Publication

EP 0877222 A3 20000223 (FR)

Application

EP 98400981 A 19980422

Priority

FR 9705736 A 19970509

Abstract (en)

[origin: EP0877222A2] The pressurised fluid injection device is for plate heat exchanger comprising a sealed enclosure (2) having inlet and exhaust for a first pressurised fluid. A plate bundle (1) located in the enclosure is composed of a plate stack (10) having flow channels between them for a first fluid mixed with a second pressurised fluid and for a heat conducting fluid. An injection tube (21) for the second fluid has calibrated orifices (26) and extends over the whole width of the plate bundle. The injection tube has a closed (21a) end and open (21b) end connected to a supply pipe (22) of the second fluid provided with a shut off valve (23). The open end is also connected to a pipe (24) for evacuating the particles deposited on a filter placed inside the tube upstream of the branching of the two pipes (22,24). The evacuation tube has a shut off valve (25).

IPC 1-7

F28F 27/02; F28D 9/00; F28F 19/01

IPC 8 full level

F28F 9/02 (2006.01); **F25B 43/00** (2006.01); **F28D 9/00** (2006.01); **F28F 19/01** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP US)

F28D 9/00 (2013.01 - EP US); **F28F 9/0273** (2013.01 - EP US); **F28F 19/01** (2013.01 - EP US)

Citation (search report)

- [A] EP 0670464 A1 19950906 - PACKINOX SA [FR]
- [A] FR 2697906 A1 19940513 - PACKINOX SA [FR]
- [A] GB 1207919 A 19701007 - APV CO LTD
- [A] DE 2613835 A1 19761014 - TOKYO SHIBAURA ELECTRIC CO
- [A] EP 0343531 A1 19891129 - RESOURCES CONSERVATION CO [US]
- [A] US 3941697 A 19760302 - JOHNSON LOUIS B

Cited by

EP2255862A1; CN103968690A; CN104713407A; US6978793B1

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EP 0877222 A2 19981111; **EP 0877222 A3 20000223**; **EP 0877222 B1 20011121**; DE 69803235 D1 20020221; DE 69803235 T2 20020822; ES 2168727 T3 20020616; FR 2763118 A1 19981113; FR 2763118 B1 19990806; JP 3990030 B2 20071010; JP H1151589 A 19990226; US 6196301 B1 20010306

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