

Title (en)

Tight chamber of a heat exchanger with a mantle consisting of straight water pipes arranged concentrically around a central burner.

Title (de)

Dichte Kammer eines Wärmetauschers mit einem Mantel aus konzentrisch um einen Zentralbrenner angeordneten geraden Wasserrohren.

Title (fr)

Chambre étanche d'échangeur de chaleur à nappe de tubes d'eau longitudinaux disposés concentriquement à un brûleur central.

Publication

EP 0051516 A1 19820512 (FR)

Application

EP 81401624 A 19811016

Priority

FR 8023288 A 19801031

Abstract (en)

[origin: ES8206816A1] A gas-tight chamber for a heat exchanger has a shell (12) forming the gas-tight chamber made of a light flexible or semirigid material such as rubber or thin silicone-treated sheet material which, because of its low weight and relative flexibility, absorbs all the vibrations produced and maintained by the burners, which eliminates the noise. The exchangers have a layer of longitudinal water tubes arranged concentrically around a central burner.

Abstract (fr)

La coquille (12) formant la chambre étanche est réalisée en une matière souple ou semi-rigide légère du genre caoutchouc ou toile mince siliconée, qui absorbe, grâce à sa faible masse et à sa relative souplesse, toutes les vibrations engendrées et entretenues par les brûleurs (1), ce qui élimine les bruits.

IPC 1-7

F24H 1/40; **F24H 1/10**; **F24H 1/18**

IPC 8 full level

F24H 9/00 (2006.01); **F24H 1/40** (2006.01); **F24H 9/02** (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP US)

F24H 1/403 (2013.01 - EP US); **F24H 9/02** (2013.01 - EP US); **F28F 9/00** (2013.01 - EP US); **F24H 2203/00** (2013.01 - EP US)

Citation (search report)

- DE 2100344 B2 19731108
- BE 816160 A 19740930
- US 4056143 A 19771101 - MARTIN BARRIE JAMES
- DE 7515483 U 19760115

Cited by

GB2144526A; EP0192564A1; FR2577309A1; EP0105805A1; FR2534005A1

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0051516 A1 19820512; **EP 0051516 B1 19840711**; DE 3164756 D1 19840816; ES 506521 A0 19820901; ES 8206816 A1 19820901; FR 2493483 A1 19820507; FR 2493483 B3 19830701; JP S57131961 A 19820816; US 4444155 A 19840424

DOCDB simple family (application)

EP 81401624 A 19811016; DE 3164756 T 19811016; ES 506521 A 19811023; FR 8023288 A 19801031; JP 17152681 A 19811028; US 31541681 A 19811027