

Title (en)  
Heat exchanger.

Title (de)  
Wärmetauscher.

Title (fr)  
Echangeur thermique.

Publication  
**EP 0015191 A1 19800903 (FR)**

Application  
**EP 80400200 A 19800208**

Priority  
FR 7903746 A 19790214

Abstract (en)  
[origin: US4311189A] Exchanger which incorporates a casing in which the heat carried by a primary fluid is transferred to a secondary fluid so as to heat the latter, the secondary fluid circulating in the tubes, whose opposite ends issue into tubular supply and discharge mains located externally of the exchanger casing and surrounding the latter at least partly, wherein each of the tubes comprises two access devices each sealed by a removable plug, while each of the access devices is located in a part of the tube positioned between the exchanger casing and the corresponding main. The present exchanger is intended more particularly for the transfer of heat between two circuits of a nuclear power station.

Abstract (fr)  
L'invention se rapporte à un échangeur de chaleur comportant une enveloppe (110) et des tubes (130) qui débouchent dans des collecteurs tubulaires (138) disposés à l'extérieur de l'enveloppe (110). Afin de permettre d'effectuer les contrôles et les mesures nécessaires dans chacun des tubes (130), un dispositif d'accès (146) est prévu dans chaque partie de tube disposée entre l'enveloppe (110) de l'échangeur et le collecteur (138) correspondant. L'invention s'applique notamment aux générateurs de vapeur équipant les réacteurs nucléaires.

IPC 1-7  
**F22B 1/06**; **F22B 37/38**; **F22B 37/74**; **F28F 27/00**

IPC 8 full level  
**F22B 1/06** (2006.01); **F22B 37/12** (2006.01); **F22B 37/22** (2006.01); **F22B 37/38** (2006.01); **F22B 37/42** (2006.01); **F22B 37/74** (2006.01); **F28F 27/00** (2006.01)

CPC (source: EP US)  
**F22B 1/063** (2013.01 - EP US); **F22B 37/125** (2013.01 - EP US); **F22B 37/221** (2013.01 - EP US); **F22B 37/38** (2013.01 - EP US); **F22B 37/421** (2013.01 - EP US); **F22B 37/74** (2013.01 - EP US); **F28F 27/00** (2013.01 - EP US); **Y10S 165/006** (2013.01 - EP)

Citation (search report)  
• [A] FR 2112007 A1 19720616 - EDF  
• [A] DE 2536757 A1 19760311 - HITACHI LTD  
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• [A] FR 2149983 A5 19730330 - WESTINGHOUSE ELECTRIC CORP

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**EP 0015191 A1 19800903**; **EP 0015191 B1 19821201**; DE 3061174 D1 19830105; FR 2449260 A1 19800912; FR 2449260 B1 19821217; JP S55137402 A 19801027; US 4311189 A 19820119

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**EP 80400200 A 19800208**; DE 3061174 T 19800208; FR 7903746 A 19790214; JP 1649180 A 19800213; US 11892980 A 19800206