

Title (en)

Heat exchanger with an array of tubes, having undulations for dilatation, and not subjected to vibration.

Title (de)

Wärmetauscher mit Rohrbündel, versehen mit Ausdehnungswellen, die nicht von Vibrationen gestört werden.

Title (fr)

Dispositif d'échange de chaleur à faisceau de tubes avec lyres de dilatation soustraites aux vibrations.

Publication

**EP 0056746 A1 19820728 (FR)**

Application

**EP 82400017 A 19820107**

Priority

FR 8100455 A 19810113

Abstract (en)

[origin: ES8401616A1] Heat exchange device with a group of tubes and expansion bends which are not subject to vibration. The device has a group of tubes arranged between two tube plates and provided with expansion bends, for heat exchange between a fluid circulating within the tubes and a liquid circulating around the tubes. Expansion bends are arranged in contact with the liquid in the coldest zone of the exchanger. The device comprises means for ensuring that the liquid cannot cause any vibration of the expansion bends. Application to heat exchangers for a steam generator in which the primary fluid is constituted by liquid sodium.

Abstract (fr)

Dispositif à faisceaux de tubes (3, 4) disposés entre deux plaques tubulaires et munis de lyres de dilatation pour échange de chaleur entre un fluide circulant à l'intérieur des tubes et un liquide circulant autour des tubes. Les lyres de dilatation (11) sont disposées au contact du liquide dans la zone la plus froide de l'échangeur, et le dispositif comporte des moyens pour assurer que le liquide ne puisse entraîner en vibration les lyres de dilatation. Application aux échangeurs de chaleur pour générateurs de vapeur à fluide primaire constitué par du sodium liquide.

IPC 1-7

**F28D 7/00**

IPC 8 full level

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Citation (search report)

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