

Title (en)  
DEVICE FOR INDIRECTLY HEATING FLUIDS.

Title (de)  
VORRICHTUNG ZUR INDIREKTEN BEHEIZUNG VON FLUIDEN.

Title (fr)  
DISPOSITIF DE CHAUFFAGE INDIRECT DE FLUIDES.

Publication  
**EP 0518880 B1 19940921**

Application  
**EP 91904137 A 19910227**

Priority  
• DE 9100183 W 19910227  
• IT 4772090 A 19900305

Abstract (en)  
[origin: WO9114139A1] A device for indirectly heating fluids, in particular for high-temperature processes, comprises a heating space (14) containing at least one thermal radiator (1) and at least one planar serpentine pipe (4) through which the fluid to be heated flows and which can be heated externally by the radiant heat from the thermal radiator. To obtain a device for indirectly heating fluids in which the heat flux is distributed uniformly in the heat exchanger, each serpentine pipe (4) is associated with a pair of thermal radiators (1) which have a heat-radiating surface (3) shaped to match the planar extension of the serpentine pipe (4), the thermal radiators (1) are arranged on opposite sides of the serpentine pipe (4), and longitudinal ribs (5, 5a, 5b) are provided on the outside of the serpentine pipe (4) on opposite sides of the pipe cross-section. The longitudinal ribs (5, 5a, 5b) extend over the entire length or most of the length of the serpentine pipe (4) in the space between the coils of the serpentine pipe (4).

IPC 1-7  
**F24H 1/40**

IPC 8 full level  
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