Title (en)
DEVICE FOR HEAT EXCHANGE, ESPECIALLY FOR USE IN GAS HEAT EXCHANGES

Publication
EP 0202981 B1 19890301 (FR)

Application
EP 86400829 A 19860417

Priority
FR 8506297 A 19850423

Abstract (en)
[origin: US4771826A] A heat exchange device is provided whose exchange zone is formed by juxtaposing a plurality of plates parallel with each other and spaced apart two by two by a plurality of spacing elements consisting of spacers parallel to each other, which may be crenellated (they then comprise crenels and projecting parts) or continuous, said plates being formed so that for any two adjacent plates, at lest one of the facing faces is provided with spacers, at least one part of said spacers being, over at least a part of their length, in contct with the facing face of the adjacent plate or with at least a part of the spacers possibly present on said facing face, over at least a part of their length, said plates, defining flow spaces for two fluids being further formed and disposed so that for one flow space out of two the spacers carried by at least one of the facing faces of two adjacent plates defining said space are crenellated spacers. The fluids flow advantageous in cross-current relation. The heat exchange devices thus formed, whose plates may be obtained readily by molding (light alloys, thermoplastic materials or thermosetting materials) are advantageously used for exchanges between gases, for example for recovering heat from the smoke of boilers or furnaces.

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