

Title (en)

An ohmic heater.

Title (de)

Ohmscher Erhitzer.

Title (fr)

Réchauffeur ohmique.

Publication

EP 0451416 A1 19911016 (EN)

Application

EP 90314168 A 19901221

Priority

GB 9008095 A 19900410

Abstract (en)

An ohmic heater comprises at least two electrodes 1 contained within a vessel 2 such that the electrodes lie along the length of the vessel 2. The vessel 2 has inlet and outlet ports 4 and 12 in the top and bottom through which a fluid to be heated flows, passing through the vessel 2 along the length of the vessel 2. The electrodes 1 are equally spaced about the axis of the vessel 2 and when in use, are connected to a power supply, such that the total voltage at any point in time at the electrodes is near or at zero. Hence, when in use, a current passes perpendicular to the flow of the fluid, but the electric potential on the axis is near to zero, and hence the leakage current from the ohmic heater is substantially reduced.

IPC 1-7

F24H 1/10

IPC 8 full level

F24H 1/20 (2006.01); **F24H 1/10** (2006.01)

CPC (source: EP)

F24H 1/106 (2013.01)

Citation (search report)

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- [X] AU 23213 A
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- [A] DE 909379 C 19540415 - RHEIN WESTFAEL ELECT WERK AG

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CN102654307A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

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EP 0451416 A1 19911016; EP 0451416 B1 19930825; AT E93605 T1 19930915; DE 69002936 D1 19930930; DE 69002936 T2 19940113; ES 2045827 T3 19940116; GB 2243064 A 19911016; GB 9008095 D0 19900606; JP H05322308 A 19931207; PT 97083 A 19930430

DOCDB simple family (application)

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