Title (en)

HEAT TRANSFER PLATE WITH CHANNEL NETWORK, HEAT TRANSFER PROCESS AND ELECTROCHEMICAL ENERGY STORAGE DEVICE

Title (de)

WÄRMELEITPLATTE MIT EINEM NETZ VON STRÖMUNGSKANÄLEN, VERFAHREN ZUM TRANSPORT VON WÄRME UND ELEKTROCHEMISCHER ENERGIESPEICHER

Title (fr)

PLAQUE POUR CONDUCTION DE CHALEUR AVEC RÉSEAU DE CANNEAUX D'ÉCOULEMENT, PROCÉDÉ DE TRANSFERT DE CHALEUR ET ACCUMULATEUR D'ÉNÉRGIE ÉLÉCTROCHIMIQUE

Publication

EP 2603948 A1 20130619 (DE)

Application

EP 11748264 A 20110729

Priority

- DE 102010034082 A 20100812
- EP 2011003828 W 20110729

Abstract (en)

[origin: WO2012019719A1] In the case of a thermally conductive plate (1) having a network of flow channels (2), at least one inlet (3) and at least one outlet (4) for a fluid, the fluid channels are arranged such that a fluid which flows into the network of flow channels at the at least one inlet (3) can flow through an arrangement of zones (5) of the thermally conductive plate whose temperature is to be controlled, and can then flow out of the network of flow channels at the at least one outlet (4). The flow channels are arranged one above the other in at least two levels. The network of flow channels comprises a tree-like structure of distribution channels (6), which is arranged on at least one first level, which distribution channels (6) guide a fluid to zones (5) of the thermally conductive plate whose temperature is to be controlled, starting from the at least one inlet into the network of flow channels. The network of flow channels furthermore comprises a tree-like structure of collecting channels (7) which is arranged on at least one second level, which collecting channels (7) receive a fluid from the distribution channels in the zones (5) of the thermally conductive plate whose temperature is to be controlled and pass out of the network of flow channels at the at least one outlet (4).

IPC 8 full level

H01M 10/6556 (2014.01)

CPC (source: EP KR US)

F28D 15/00 (2013.01 - KR US); **H01M 10/625** (2015.04 - EP KR US); **H01M 10/653** (2015.04 - KR); **H01M 10/6551** (2015.04 - KR); **H01M 10/6556** (2015.04 - EP KR US); **H01M 10/6568** (2015.04 - EP KR US); H01M 10/613 (2015.04 - EP KR US); H01M 10/615 (2015.04 - EP KR US); H01M 10/6569 (2015.04 - EP KR US); H01M 2220/20 (2013.01 - KR); Y02E 60/10 (2013.01 - EP)

Citation (search report)

See references of WO 2012019719A1

Designated contracting state (EPC)

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