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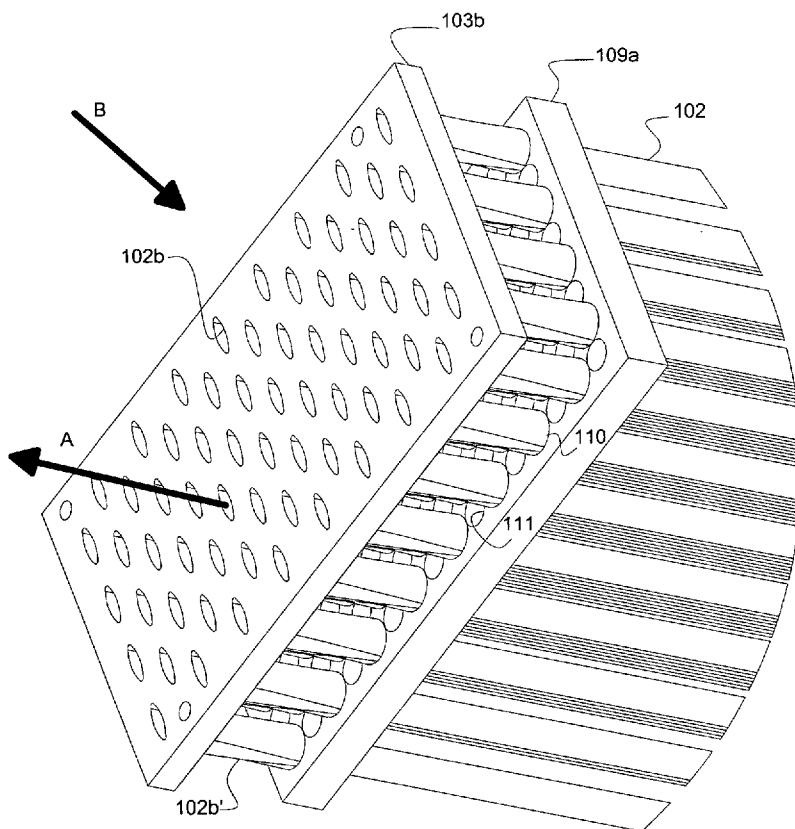
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(54) Title: DEVICE FOR MOISTURE EXCHANGE BETWEEN GAS FLOWS



(57) Abstract: Device for exchange of moisture, between at least two counter-current gas flows (A, B), comprising a generally closed chamber (1, 101) having an inlet (7, 107) and an outlet (8, 108) for a first gas flow (B), such that the first gas flow flows in a first direction from the inlet to the outlet inside the chamber; and at least one duct (2, 102), which extends inside the chamber, generally in parallel with the first direction, which duct (2, 102) is arranged to conduct a second fluid flow (A) in an opposite direction to the first direction and which duct (2, 102) comprises a duct wall material with high permeability to water. In order to enhance the efficiency of the moisture exchange the device comprises an inlet space for the gas flow B, which inlet space is arranged in the central chamber (1, 101), between the inlet (7, 107) and a first support and flow distributing member (9a, 109a) arranged inside the chamber (1, 101) between the inlet opening (7, 107) and the outlet opening (8, 108), and means for uniform distribution of the gas inside the inlet space for providing a generally parallel and uniform first fluid flow (B) inside the chamber.



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