

Title (en)

HIGH-CAPACITY VAPOR/LIQUID CONTACTING DEVICE

Title (de)

DAMPF/FLÜSSIGKEITS-KONTAKTGERÄT MIT HOHER KAPAZITÄT

Title (fr)

DISPOSITIF A HAUTE CAPACITE PERMETTANT DE METTRE EN CONTACT UNE VAPEUR ET UN LIQUIDE

Publication

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Application

EP 98958477 A 19981106

Priority

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Abstract (en)

[origin: WO9926718A1] A vapor/liquid contacting tray is disclosed which is useful in distillation, mass transfer and heat transfer processes where the liquid flows down and the vapor flows up through the vessel. In the device, the perforated area (1, 7) of the tray is relatively small, so the liquid is entrained upward. The liquid flow is directed downward into a large disengaging area (5). The downward momentum of the liquid and the large disengaging area (5) allow for high liquid and vapor flow rates without overloading the vapor/liquid disengaging capacity of the device. The device is also equipped with outlet weirs (3) and baffles (4) to deflect the flow of the vapor and liquid passing through the vessel.

IPC 1-7

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