

Title (en)

TRAY CONTACTOR WITH SAME-DIRECTION LIQUID FLOW

Title (de)

KONTAKTKORB MIT FLÜSSIGKEITSSTRÖMUNG IN EINE EINZIGE RICHTUNG

Title (fr)

CONTACTEUR POUR PLATEAU DE COLONNE A ECOULEMENT DE LIQUIDE DANS UNE MEME DIRECTION

Publication

EP 1115476 A4 20020619 (EN)

Application

EP 98941013 A 19980825

Priority

US 9817339 W 19980825

Abstract (en)

[origin: WO0010696A1] A vapor-liquid contactor includes a plurality of vertically stacked trays (151) within a containment column, the central downcomer (152) provides a liquid supply and removal area at the same location on each tray (151), so that the horizontal liquid flow pattern is the same on each tray (151). The contactor also includes vertical partitions (154) positioned transverse to the liquid flow within the vapor space of each tray (151) to minimize vapor mixing. The trays (151) may also include an indirect heat exchanger in the form of tubing arrays (208).

IPC 1-7

B01F 3/04; **C10J 1/08**; **B01D 3/16**; **B01D 3/20**; **B01D 3/22**

IPC 8 full level

F28D 1/047 (2006.01); **B01D 3/16** (2006.01); **B01F 3/04** (2006.01); **B01F 5/00** (2006.01); **B01J 10/00** (2006.01); **B01J 19/00** (2006.01)

CPC (source: EP)

B01D 3/16 (2013.01); **B01D 3/166** (2013.01); **B01F 23/2322** (2022.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 0010696A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0010696 A1 20000302; EP 1115476 A1 20010718; EP 1115476 A4 20020619; JP 2003534890 A 20031125

DOCDB simple family (application)

US 9817339 W 19980825; EP 98941013 A 19980825; JP 2000566008 A 19980825