

Title (en)
APPARATUS AND PROCESS FOR DISTRIBUTING LIQUID

Title (de)
VORRICHTUNG UND VERFAHREN ZUR FLÜSSIGKEITSVERTEILUNG

Title (fr)
DISPOSITIF ET PROCÉDÉ PERMETTANT DE DIFFUSER UN LIQUIDE

Publication
EP 2069057 A4 20120328 (EN)

Application
EP 07814045 A 20070814

Priority

- US 2007075858 W 20070814
- US 46832206 A 20060830
- US 46832806 A 20060830

Abstract (en)
[origin: WO2008027718A2] This liquid distributor functions to uniformly distribute a descending liquid stream across the tray for interaction with an ascending vapor stream. It has a feed pipe (6) which delivers the liquid stream to an underlying elongated trough (4). Liquid discharge holes (18) are positioned in the floor (12) of the trough (4). A perforated v-plate (20) positioned within the trough (4) so that liquid from the feed pipe (6) passes through the perforated v-plate (20) before encountering the floor (12) of the trough (4). When liquid passes through the perforated v-plate (20), the stream is divided into smaller streams of lower velocity, providing a more uniform overall flow rate of liquid passing through the trough (4). Liquid is then delivered from the discharge outlets (18) of the trough onto the upper surface of the tray (35) with a substantially uniform flow rate across the trough (4).

IPC 8 full level
B01F 3/04 (2006.01)

CPC (source: EP KR)
B01D 3/008 (2013.01 - EP); **B01D 47/16** (2013.01 - KR); **B01F 23/20** (2022.01 - KR)

Citation (search report)

- [X] EP 0378408 A2 19900718 - GLITSCH [US]
- [XA] US 6568663 B1 20030527 - XU ZHANPING [US], et al
- [A] US 5230839 A 19930727 - SAMPATH VIJAY R [US], et al
- See references of WO 2008027718A2

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
WO 2008027718 A2 20080306; WO 2008027718 A3 20081204; CA 2661785 A1 20080306; CA 2661785 C 20130709; EP 2069057 A2 20090617; EP 2069057 A4 20120328; JP 2010502422 A 20100128; JP 4749490 B2 20110817; KR 101122813 B1 20120321; KR 20090035742 A 20090410; MX 2009001543 A 20090218; RU 2009111256 A 20101010; RU 2403961 C1 20101120; TW 200819192 A 20080501; TW I335837 B 20110111

DOCDB simple family (application)
US 2007075858 W 20070814; CA 2661785 A 20070814; EP 07814045 A 20070814; JP 2009526797 A 20070814; KR 20097004568 A 20070814; MX 2009001543 A 20070814; RU 2009111256 A 20070814; TW 96131924 A 20070828