

Title (en)

GAS LIQUID CONTACTOR AND EFFLUENT CLEANING SYSTEM AND METHOD

Title (de)

GAS-FLÜSSIGKEITS-SCHÜTZ SOWIE VERFAHREN UND SYSTEM ZUR EFFLUENZENREINIGUNG

Title (fr)

CONTACTEUR GAZ-LIQUIDE ET SYSTÈME ET PROCÉDÉ DE NETTOYAGE D'EFFLUENT

Publication

EP 2329567 A4 20120314 (EN)

Application

EP 09816647 A 20090706

Priority

- US 2009049707 W 20090706
- US 10060608 P 20080926
- US 10056408 P 20080926
- US 10059108 P 20080926

Abstract (en)

[origin: WO2010036436A1] The invention relates to a gas liquid contactor and effluent cleaning system and method and more particularly to an array of nozzles configured to produce uniformly spaced flat liquid jets shaped to minimize disruption from a gas. An embodiment of the invention is directed towards a gas liquid contactor module including a liquid inlet and outlet and a gas inlet and outlet. An array of nozzles is in communication with the liquid inlet and the gas inlet. The array of nozzles is configured to produce uniformly spaced flat liquid jets shaped to minimize disruption from a gas flow and maximize gas flow and liquid flow interactions while rapidly replenishing the liquid.

IPC 8 full level

H01S 3/095 (2006.01); **B01D 53/18** (2006.01); **H01S 3/036** (2006.01)

CPC (source: EP KR)

B01D 53/18 (2013.01 - EP); **H01S 3/036** (2013.01 - EP); **H01S 3/095** (2013.01 - EP KR); **B01D 2251/106** (2013.01 - EP); **B01D 2251/2065** (2013.01 - EP); **B01D 2251/30** (2013.01 - EP); **B01D 2251/40** (2013.01 - EP); **B01D 2251/80** (2013.01 - EP); **B01D 2257/302** (2013.01 - EP); **B01D 2257/304** (2013.01 - EP); **B01D 2257/404** (2013.01 - EP); **B01D 2257/406** (2013.01 - EP); **B01D 2257/504** (2013.01 - EP); **B01D 2257/602** (2013.01 - EP); **B01D 2259/124** (2013.01 - EP); **H01S 3/2215** (2013.01 - EP)

Citation (search report)

- [XDYI] US 7379487 B2 20080527 - MCDERMOTT WILLIAM EDWARD [US], et al
- [Y] US 4948402 A 19900814 - DAVIS H FORBES [US]
- [Y] US 4102982 A 19780725 - WEIR JR ALEXANDER
- See references of WO 2010036436A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2010036436 A1 20100401; AU 2009297005 A1 20100401; AU 2009297005 B2 20140529; CA 2737637 A1 20100401; CN 102217152 A 20111012; CN 102217152 B 20130612; EP 2329567 A1 20110608; EP 2329567 A4 20120314; JP 2012503541 A 20120209; JP 5777215 B2 20150909; KR 20110091658 A 20110812; MX 2011003098 A 20110803; NZ 592100 A 20131129

DOCDB simple family (application)

US 2009049707 W 20090706; AU 2009297005 A 20090706; CA 2737637 A 20090706; CN 200980145932 A 20090706; EP 09816647 A 20090706; JP 2011529041 A 20090706; KR 20117009444 A 20090706; MX 2011003098 A 20090706; NZ 59210009 A 20090706