

Title (en)

CONTAMINANT REMOVAL IN A TRANSLATING SLUG FLOW

Title (de)

ENTFERNUNG VON VERUNREINIGUGEN IN EINEM TRANSLATIERENDEN PROPFFENSTROM

Title (fr)

ELIMINATION D'UN CONTAMINANT DANS UN ECOULEMENT A BOUCHONS A MOUVEMENT DE TRANSLATION

Publication

**EP 1011857 A1 20000628 (EN)**

Application

**EP 98943339 A 19980824**

Priority

- US 9817491 W 19980824
- US 5894597 P 19970826

Abstract (en)

[origin: WO9910095A1] A system and method for removing a contaminant from a carrier gas is provided comprising the steps of: introducing a liquid into a fluid conduit, wherein the liquid is characterized by a first fluid flow rate and wherein the conduit is arranged to define a conduit periphery that completely encloses fluids within the conduit; introducing a carrier gas and a contaminant into the fluid conduit, wherein the carrier gas is characterized by a second fluid flow rate; arranging the fluid conduit to define an inclined conduit section and establishing the first fluid flow rate and the second fluid flow rate such that a succession of moving slugs are created in the inclined conduit section of the fluid conduit; providing an outlet flow of a third fluid downstream of the succession of moving slugs, wherein the third fluid comprises the carrier gas; providing an outlet flow of a fourth fluid downstream of the succession of moving slugs, wherein the fourth fluid comprises a combination of the liquid and at least a portion of the contaminant from the carrier gas; regenerating the fourth fluid by removing at least a portion of the contaminant therefrom; and introducing the fourth fluid with the liquid.

IPC 1-7

**B01J 19/24**; B01D 53/77; B01J 10/00

IPC 8 full level

**B01D 53/77** (2006.01); **B01J 10/00** (2006.01); **B01J 19/00** (2006.01); **B01J 19/24** (2006.01)

CPC (source: EP)

**B01D 53/77** (2013.01); **B01J 19/006** (2013.01); **B01J 19/2415** (2013.01); **B01J 2219/00164** (2013.01); **B01J 2219/00243** (2013.01); **B01J 2219/00768** (2013.01); **B01J 2219/187** (2013.01)

Citation (search report)

See references of WO 9910095A1

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 9910095 A1 19990304**; AU 739777 B2 20011018; AU 9116198 A 19990316; CA 2301011 A1 19990304; EP 1011857 A1 20000628; NO 20000919 D0 20000224; NO 20000919 L 20000425

DOCDB simple family (application)

**US 9817491 W 19980824**; AU 9116198 A 19980824; CA 2301011 A 19980824; EP 98943339 A 19980824; NO 20000919 A 20000224