

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

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- 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.

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