

Title (en)

DEVICE FOR CONDITIONS OF CHEMICAL TECHNOLOGIES AND ITS APPLICATION

Title (de)

VORRICHTUNG UNTER BEDINGUNGEN CHEMISCHER TECHNOLOGIEN, UND SEINE VERWENDUNG

Title (fr)

DISPOSITIF DESTINE A ETRE UTILISE DANS DES TECHNOLOGIES CHIMIQUES ET UTILISATION DUDIT DISPOSITIF

Publication

EP 1569747 A1 20050907 (EN)

Application

EP 03717864 A 20030404

Priority

- SK 0300006 W 20030404
- SK 16762002 A 20021126

Abstract (en)

[origin: WO2004047980A1] This invention describes device that can be used in chemical technologies, is suitable for systems with coexistence of several phases. The device has a shape of two concentric vertical cylinders, inside of which the liquid circulates as a result of difference in density of the fluid at a given time present in the inner and the outer cylinder of the device. In the longitudinal section, the inner cylinder comprises at least one reaction zone (R2, R4), the corresponding number of the related sections and inner part of the separator (D5). The reaction zones ordinarily contain packing loaded in segments on a support grid. The related sections comprise a gas distributor (S1). The bottom section contains a jet nozzle (B) for a liquid reagent introduction, valves (C, E) for third phase discharge, gas distributor (S2) in its upper part and in the space below the distributor, there are circular openings round the body of the inner cylinder. These openings allow the circulating liquid to be sucked in from the outer into the inner cylinder. The device enables reactions of olefin hypochlorites production to be carried out with gaseous chlorine, olefinically unsaturated compound and water in the presence of aqueous solution of the product.

IPC 1-7

B01J 19/02; B01J 19/24; B01J 8/02; B01J 8/06

IPC 8 full level

B01J 8/02 (2006.01); **B01J 8/06** (2006.01); **B01J 19/02** (2006.01); **B01J 19/24** (2006.01)

CPC (source: EP)

B01J 8/0292 (2013.01); **B01J 8/065** (2013.01); **B01J 19/02** (2013.01); **B01J 19/2425** (2013.01); **B01J 2208/00176** (2013.01); **B01J 2208/00212** (2013.01); **B01J 2219/00094** (2013.01)

Citation (search report)

See references of WO 2004047980A1

Designated contracting state (EPC)

BE CZ DE FR NL

DOCDB simple family (publication)

WO 2004047980 A1 20040610; AU 2003222562 A1 20040618; EP 1569747 A1 20050907; PL 375505 A1 20051128; RU 2005120243 A 20060120; SK 16762002 A3 20040608; SK 285692 B6 20070607

DOCDB simple family (application)

SK 0300006 W 20030404; AU 2003222562 A 20030404; EP 03717864 A 20030404; PL 37550503 A 20030404; RU 2005120243 A 20030404; SK 16762002 A 20021126