

Title (en)

METHOD AND APPARATUS FOR SEPARATING AN IMMISCIBLE LIQUID/LIQUID MIXTURE CONTAINING SOLID MATTER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR TRENNUNG EINES UNMISCHBAREN FLÜSSIG-FLÜSSIG-GEMISCHES, DAS FESTSTOFFEN ENTHÄLT

Title (fr)

PROCEDE ET APPAREILLAGE DE SEPARATION D'UN MELANGE LIQUIDE IMMISCIBLE/LIQUIDE CONTENANT UNE MATIERE SOLIDE

Publication

EP 0831958 A1 19980401 (EN)

Application

EP 96903791 A 19960131

Priority

- US 9601630 W 19960131
- US 42721595 A 19950424

Abstract (en)

[origin: WO9633789A1] A purification system for separating phases of a solid/liquid/liquid mixture includes at least one cylindrical filter element including a filter medium (125) for removing solid particulate matter, the filter medium having a bubble point of at least about 200 inches of water, and at least one coalescing element (120) in spaced relationship to the filter medium for coalescing into droplets at first liquid of a solid/liquid/liquid mixture, which first liquid is wholly or partly immiscible in and forms a discontinuous phase with a second continuous phase-forming liquid of the solid/liquid/liquid mixture. The filter element (125) may be detachably mounted adjacent to the coalescer element (120). A method for separating a solid/liquid/liquid mixture into individual phases includes passing the mixture through at least one filter element including a filter medium having a bubble point of at least about 200 inches of water to remove solid particulate matter and thereafter passing the resultant liquid mixture from which solid particulate matter has been removed and in which a first liquid is wholly or partially immiscible in and forms a discontinuous phase with a second continuous phase-forming liquid to coalesce the first liquid into droplets.

IPC 1-7

B01D 17/04

IPC 8 full level

B01D 17/00 (2006.01); **B01D 17/022** (2006.01); **B01D 17/04** (2006.01); **B01D 29/07** (2006.01); **B01D 29/11** (2006.01)

CPC (source: EP)

B01D 17/00 (2013.01); **B01D 17/045** (2013.01); **B01D 17/10** (2013.01)

Citation (search report)

See references of WO 9633789A1

Cited by

US11692145B1; EP4276160A1; US11905473B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9633789 A1 19961031; AU 4776596 A 19961118; AU 709516 B2 19990902; EP 0831958 A1 19980401; JP H11504257 A 19990420; NO 974895 D0 19971023; NO 974895 L 19971211; NZ 302168 A 19980924; PL 322976 A1 19980302

DOCDB simple family (application)

US 9601630 W 19960131; AU 4776596 A 19960131; EP 96903791 A 19960131; JP 53248096 A 19960131; NO 974895 A 19971023; NZ 30216896 A 19960131; PL 32297696 A 19960131