Title (en)
POLLUTION SEPARATING AND PURIFYING APPARATUS FOR AT LEAST ONE FLUID MIXTURE

Title (de)
ABSCHEIDE-UND REINIGUNGSVORRICHTUNG FÜR WENIGSTENS EIN VERSCHMUTZTES FLUSSIGKEITSGEMISCH

Title (fr)
APPAREIL SEPARATEUR ET EPURATEUR DE LA POLLUTION D'AU MOINS UN MELANGE FLUIDE

Publication
EP 0764055 A1 19970326 (FR)

Application
EP 95923367 A 19950609

Priority
• FR 9500759 W 19950609
• FR 9407057 A 19940609

Abstract (en)
[origin: WO9533572A1] The pollution separating and purifying apparatus (10) for at least one fluid mixture comprises: an inlet member (14) for the fluid mixture to be treated in a fixed cylindrical body (12); a rotor mounted in said cylindrical body (12) and presenting a piling of at least two perforated plates (18) cooperating with means generating a pressure drop at the upper portion of the apparatus and generating an upward helical motion of the mixture to be treated; a collection hopper (22) for collecting the heavy phase, said hopper being connected to the cylindrical body (12) under the rotor (16) and being provided with forced evacuation means (24); and means (26) for extracting the treated mixture, said extraction means being connected to the cylindrical body (12) above the rotor (16). The inlet member (14) is situated between the rotor (16) and the extraction means (26) and comprises an annular chamber (28) connected to the annular space (20) which is defined between the periphery of the plates (18) and the wall of the cylindrical body (12), an inlet (30) of the mixture to be treated in the annular chamber (28), and a central column (32). The apparatus comprises means (36, 40, 42) which generate a downward helical motion in the annular space (20).

IPC 1-7
B04B 5/12

IPC 8 full level
B04B 5/12 (2006.01)

CPC (source: EP US)
B04B 5/12 (2013.01 - EP US); B04B 2005/125 (2013.01 - EP US)

Citation (search report)
See references of WO 9533572A1

Designated contracting state (EPC)
AT BE DE GB IT NL SE

DOCDB simple family (publication)
WO 9533572 A1 19951214; AT E170107 T1 19980915; DE 69504340 D1 19981001; DE 69504340 T2 19990506; EP 0764055 A1 19970326; EP 0764055 B1 19980826; FR 2720958 A1 19951215; FR 2720958 B1 19960830; US 5851396 A 19981222

DOCDB simple family (application)
FR 9500759 W 19950609; AT 95923367 T 19950609; DE 69504340 T 19950609; EP 95923367 A 19950609; FR 9407057 A 19940609; US 75036696 A 19961209