Title (en)

INTEGRATED MULTIPLE-STAGE AUTO-SELF-CLEANING FILTER

Title (de)

INTEGRIERTES MEHRSTUFIGES FILTER MIT AUTOMATISCHER SELBSTREINIGUNG

Title (fr)

FILTRE INTÉGRÉ AUTONETTOYANT MULTI-ÉTAGE

Publication

EP 2948232 A4 20161102 (EN)

Application

EP 13865722 A 20131218

Priority

- IN 3567MU2012 A 20121220
- IN 2013000777 W 20131218

Abstract (en)

[origin: WO2014097317A2] A bolted integrated equipment with low footprint comprising of first stage and second stage filtration with automatic self cleaning and efficient backwash, with continuous output and zero downtime, the first stage apparatus comprising of a bottom chamber with an inlet pipe; a conical screen, a rotatable movable arm for slurry discharge and a constantly open drain nozzle; the second stage apparatus comprising a body with multiple filtration modules located in diametrically opposing manner containing filtration elements and a top chamber for filtrate collection comprising an outlet and a rotatable T shaped pipe arm sealing two diametrically opposing filtration modules during backwash; wherein the said T shaped pipe arm being connected to the movable arm by means of a shaft; wherein the filtrate of the first stage is the input for the second stage and the filtrate of one module acts as the Backwash fluid for the other module undergoing backwash.

IPC 8 full level

B01D 29/00 (2006.01); **B01D 29/52** (2006.01); **B01D 29/66** (2006.01)

CPC (source: EP)

B01D 29/52 (2013.01); **B01D 29/668** (2013.01)

Citation (search report)

- [I] US 3380591 A 19680430 - JACQUES MULLER
- [A] DE 4340275 A1 19950601 - BOLL & KIRCH FILTER [DE]
- [A] RU 2082484 C1 19970627 - SHUTKOV EVGENIJ ALEKSEEVICH [SU], et al
- [A] US 3318452 A 19670509 - ADAMS RENARD P
- [A] DE 8306970 U1 19840119
- See references of WO 2014097317A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014097317 A2 20140626; **WO 2014097317 A3 20141204**; EP 2948232 A2 20151202; EP 2948232 A4 20161102

DOCDB simple family (application)

IN 2013000777 W 20131218; EP 13865722 A 20131218