

Title (en)
FLUID TREATMENT ARRANGEMENT

Title (de)
FLUIDBEHANDLUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE TRAITEMENT DE FLUIDE

Publication
EP 1017470 A1 20000712 (EN)

Application
EP 98946973 A 19980915

Priority
• US 9819063 W 19980915
• US 5887797 P 19970915

Abstract (en)
[origin: WO9913958A1] A fluid treatment arrangement includes a tube sheet (30) and a plurality of fluid treatment elements (60) sealed to the tube sheet (30). The fluid treatment arrangement is designed so that the fluid treatment elements (60) can be easily unsealed and removed from the tube sheet (30). According to one form of the invention, the arrangement includes an ejector mechanism (90) movable with respect to the tube sheet (30) into and out of contact with the fluid treatment elements (60). When the ejector mechanism (90) contacts the fluid treatment elements (60), it exerts an axial force on the fluid treatment elements to produce relative movement between the fluid treatment elements (60) and the tube sheet (30) by a sufficient distance to unseal the fluid treatment elements (60) from the tube sheet (30), making it easy to remove the fluid treatment elements from the tube sheet. In preferred embodiments, the fluid treatment elements comprise filter elements.

IPC 1-7
B01D 29/11; **B01D 29/52**

IPC 8 full level
B01D 29/11 (2006.01); **B01D 29/50** (2006.01); **B01D 46/00** (2006.01); **B01D 63/06** (2006.01); **B01D 65/00** (2006.01)

CPC (source: EP US)
B01D 29/114 (2013.01 - EP); **B01D 29/117** (2013.01 - EP); **B01D 29/52** (2013.01 - EP); **B01D 29/96** (2013.01 - EP); **B01D 46/00** (2013.01 - EP); **B01D 63/06** (2013.01 - EP US); **B01D 65/00** (2013.01 - EP); **B01D 2201/0453** (2013.01 - EP)

Cited by
US11884701B2; US10874990B2

Designated contracting state (EPC)
CH DE ES FI FR GB LI SE

DOCDB simple family (publication)
WO 9913958 A1 19990325; EP 1017470 A1 20000712; JP 2001516634 A 20011002

DOCDB simple family (application)
US 9819063 W 19980915; EP 98946973 A 19980915; JP 2000511563 A 19980915