

Title (en)

FILTER DEVICE WITH DRAIN IN THE COVER

Title (de)

FILTEREINRICHTUNG MIT LEERLAUF IM DECKEL

Title (fr)

DISPOSITIF DE FILTRAGTION AVEC DRAIN DANS LE COUVERCLE

Publication

EP 3099394 A1 20161207 (DE)

Application

EP 15703894 A 20150119

Priority

- DE 102014201680 A 20140130
- EP 2015050865 W 20150119

Abstract (en)

[origin: WO2015113846A1] The invention relates to a suspended filter device (1), - having a ring filter element (3), - having a cover (5), which can be fastened on a housing (4) from beneath, - wherein the housing (4) has an inlet and an outlet, - having a drainage means (6), which, in the installed state, is arranged at the bottom of the cover (5), - having a pin (7), which is arranged on the ring filter element (3) and closes the drainage means (6), - and having a first dome (8). It is essential to the invention here - that a guide contour (9) is provided at a free end of the first dome (8), said contour interacting with a guide element (10) arranged on the ring filter element (3), - and that a spring (11) is provided, said spring being supported, on the one hand, on the cover (5) and, on the other hand, on the dome (8) and prestressing the ring filter element (3) in the upward direction into the housing (4) via the dome (8). This makes it easier for suitable ring filter elements (3) to be used and for the ring filter element (3) to be changed over.

IPC 8 full level

B01D 35/153 (2006.01); **B01D 29/96** (2006.01); **B01D 35/16** (2006.01)

CPC (source: EP US)

B01D 29/112 (2013.01 - US); **B01D 29/96** (2013.01 - EP US); **B01D 35/005** (2013.01 - US); **B01D 35/153** (2013.01 - EP US); **B01D 35/16** (2013.01 - EP US); **B01D 2201/291** (2013.01 - EP US); **B01D 2201/301** (2013.01 - EP US); **B01D 2201/316** (2013.01 - EP US); **B01D 2201/4007** (2013.01 - EP US)

Citation (search report)

See references of WO 2015113846A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102014201680 A1 20150730; CN 106029201 A 20161012; CN 106029201 B 20180720; EP 3099394 A1 20161207; US 2017173506 A1 20170622; WO 2015113846 A1 20150806

DOCDB simple family (application)

DE 102014201680 A 20140130; CN 201580009117 A 20150119; EP 15703894 A 20150119; EP 2015050865 W 20150119; US 201515115436 A 20150119