

Title (en)

REMOVAL TOOL FOR A FILTER INSERT OF A LIQUID FILTER

Title (de)

DEMONTAGEWERKZEUG FÜR EINEN FILTEREINSATZ EINES FLÜSSIGKEITSFILTERS

Title (fr)

OUTIL DE DÉMONTAGE D'UNE CARTOUCHE FILTRANTE D'UN FILTRE À LIQUIDE

Publication

**EP 3544718 A1 20191002 (DE)**

Application

**EP 17791344 A 20171025**

Priority

- DE 102016223456 A 20161125
- EP 2017077216 W 20171025

Abstract (en)

[origin: WO2018095677A1] The invention relates to a removal tool (1) for a filter insert (70) of a liquid filter (90). The removal tool (1) comprises a first arm (10), which extends along a first axis (A1) and a second arm (20), which extends along a second axis (A2). The first arm (10) has a first hook (11), which protrudes substantially transverse to the first axis (A1) of the first arm (10). The second arm (20) has a second hook (21), which protrudes substantially transverse to the second axis (A2) of the second arm (20). The first arm (10) and the second arm (20) are connected to each other by a rotating joint (30).

IPC 8 full level

**B01D 46/42** (2006.01); **B01D 29/21** (2006.01); **B01D 29/96** (2006.01)

CPC (source: EP)

**B01D 29/21** (2013.01); **B01D 29/96** (2013.01); **B01D 46/4227** (2013.01); **B25B 27/0042** (2013.01); **B01D 2201/24** (2013.01); **B01D 2201/295** (2013.01); **B01D 2201/347** (2013.01)

Citation (search report)

See references of WO 2018095677A1

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 102016223456 A1 20180530**; **DE 102016223456 B4 20181108**; CN 110191748 A 20190830; EP 3544718 A1 20191002; WO 2018095677 A1 20180531

DOCDB simple family (application)

**DE 102016223456 A 20161125**; CN 201780084565 A 20171025; EP 17791344 A 20171025; EP 2017077216 W 20171025