

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 3600775 A1 20200205 (DE)**

Application

**EP 18703010 A 20180202**

Priority

- DE 102017205242 A 20170328
- EP 2018052667 W 20180202

Abstract (en)

[origin: WO2018177631A1] The invention relates to a removal tool (1) for a filter insert (70) of a liquid filter (90). The removal tool (1) according to the invention comprises a first arm (10) having a first outer side (13), wherein the first outer side (13) extends along a first axis (A1). The removal tool furthermore comprises a second arm (20) having a second outer side (23), wherein the second outer side (23) 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). According to the invention, the first outer side (13) and the second outer side (23) are connected to each other by means of a swivel joint (30, 32) having a joint axis (A3).

IPC 8 full level

**B25B 27/00** (2006.01); **B25B 27/06** (2006.01)

CPC (source: EP US)

**B25B 27/0035** (2013.01 - EP); **B25B 27/0042** (2013.01 - US); **B25B 27/06** (2013.01 - EP US)

Citation (search report)

See references of WO 2018177631A1

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)

**WO 2018177631 A1 20181004**; CN 110678297 A 20200110; DE 102017205242 A1 20181004; DE 102017205242 B4 20220217; EP 3600775 A1 20200205; EP 3600775 B1 20230920; FR 3064516 A1 20181005; FR 3064516 B1 20210129; US 11685031 B2 20230627; US 2020384623 A1 20201210

DOCDB simple family (application)

**EP 2018052667 W 20180202**; CN 201880035040 A 20180202; DE 102017205242 A 20170328; EP 18703010 A 20180202; FR 1852581 A 20180326; US 201816495751 A 20180202