

Title (en)  
WATER TANK HAVING A FILTER CARTRIDGE

Title (de)  
WASSERTANK MIT FILTERPATRONE

Title (fr)  
RÉSERVOIR D'EAU DOTÉ D'UNE CARTOUCHE FILTRANTE

Publication  
**EP 4313353 A1 20240207 (DE)**

Application  
**EP 22718081 A 20220321**

Priority  
• DE 102021107068 A 20210322  
• DE 202021003987 U 20210901  
• EP 2022057369 W 20220321

Abstract (en)  
[origin: WO2022200255A1] The invention relates to a filter cartridge (4) for use inside a water tank of a household appliance, such as a drinks machine, in particular a coffee machine or the like, having a filter housing (5) that has a wall separating the housing interior from the housing exterior, wherein a filter inlet opening is provided, which is open with respect to the outer surroundings of the filter housing (5) when the filter cartridge (4) is in use, wherein, with respect to the direction of flow of the water during use, a device for guiding water inside the filter housing (5) is provided and connected to the filter inlet opening, said device ending in a filter outlet line for drawing water out of the filter cartridge (4) and comprising at least one filter chamber containing at least one filter medium, and wherein a filter connecting piece (9) having an annular filter sealing face for connecting the filter cartridge (4) is provided in a water tank. The filter cartridge is characterised in that a guide structure is arranged inside the filter sealing face, separately therefrom, on the side of the filter, for receiving a centring element for centring the filter cartridge (4).

IPC 8 full level  
**B01D 29/11** (2006.01); **A47J 31/06** (2006.01); **A47J 31/60** (2006.01); **B01D 27/08** (2006.01); **B01D 29/96** (2006.01); **B01D 35/027** (2006.01); **B01D 35/153** (2006.01); **C02F 1/00** (2023.01)

CPC (source: EP KR US)  
**A47J 31/06** (2013.01 - EP KR); **A47J 31/605** (2013.01 - EP KR US); **B01D 27/08** (2013.01 - EP KR); **B01D 29/114** (2013.01 - EP KR); **B01D 29/96** (2013.01 - EP KR); **B01D 35/0273** (2013.01 - EP KR); **B01D 35/0276** (2013.01 - EP KR US); **B01D 35/153** (2013.01 - EP KR); **C02F 1/003** (2013.01 - EP KR US); **B01D 2201/287** (2013.01 - US); **B01D 2201/304** (2013.01 - US); **B01D 2201/4023** (2013.01 - EP KR US); **B01D 2201/4046** (2013.01 - EP KR US); **B01D 2201/4053** (2013.01 - EP KR); **C02F 2201/004** (2013.01 - EP KR US); **C02F 2201/006** (2013.01 - EP KR US); **C02F 2307/12** (2013.01 - EP KR US)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102022106568 A1 20220922**; AU 2022241914 A1 20231012; AU 2022245948 A1 20231102; CN 116456871 A 20230718; CN 116456871 B 20240524; CN 116472094 A 20230721; CN 116472094 B 20240524; CN 116472251 A 20230721; CN 116490254 A 20230725; CN 116600686 A 20230815; CN 117396113 A 20240112; CN 117440856 A 20240123; DE 102022106508 A1 20220922; EP 4312681 A1 20240207; EP 4313353 A1 20240207; KR 20230160858 A 20231124; KR 20230161467 A 20231127; US 2024182326 A1 20240606; US 2024189746 A1 20240613; WO 2022200255 A1 20220929; WO 2022200282 A1 20220929

DOCDB simple family (application)  
**DE 102022106568 A 20220321**; AU 2022241914 A 20220321; AU 2022245948 A 20220321; CN 202180073048 A 20210901; CN 202180073063 A 20210901; CN 202180073073 A 20210901; CN 202180074590 A 20210901; CN 202180074714 A 20210901; CN 202280036773 A 20220321; CN 202280036787 A 20220321; DE 102022106508 A 20220321; EP 2022057310 W 20220321; EP 2022057369 W 20220321; EP 22717113 A 20220321; EP 22718081 A 20220321; KR 20237035656 A 20220321; KR 20237035674 A 20220321; US 202218551806 A 20220321; US 202218552000 A 20220321