

## Title (en)

AMBIENT AIR PURIFICATION DEVICE, AND USE OF A FILTER ELEMENT IN AN AMBIENT AIR PURIFICATION DEVICE

## Title (de)

UMGEBUNGSLUFTREINIGUNGSVORRICHTUNG UND VERWENDUNG EINES FILTERELEMENTS IN EINER  
UMGEBUNGSLUFTREINIGUNGSVORRICHTUNG

## Title (fr)

DISPOSITIF DE PURIFICATION D'AIR AMBIANT ET UTILISATION D'UN ÉLÉMENT FILTRANT DANS UN DISPOSITIF DE PURIFICATION D'AIR  
AMBIANT

## Publication

**EP 4259303 A1 20231018 (DE)**

## Application

**EP 21840996 A 20211208**

## Priority

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## Abstract (en)

[origin: WO2022123453A1] The present invention relates to an ambient air purification device (10) with a housing (1). At least one filter device (2) is arranged in the housing (1), which at least one filter device (2) comprises a main filter element (21) and a pre-filter element (22) which is mounted upstream of the main filter element (21). The filter receiving region (17) has a protruding peripheral bearing shoulder (171) for bearing sealingly against a seal (224) of the filter device (2). A clamping force generating device (5) is arranged in the housing (1), by way of which device (5) an axially directed clamping force can be exerted on the frame device (212) of the main filter element (21), wherein the frame device (222) of the pre-filter element (22) can be pressed sealingly onto the bearing shoulder (171) by way of the clamping force, with a first peripheral seal (224) being positioned in between. Furthermore, a use of a filter element in each case as a pre-filter element (22) and as a main filter element (21) is disclosed.

## IPC 8 full level

**B01D 46/00** (2022.01); **B01D 46/121** (2022.01); **B01D 46/28** (2006.01); **B01D 46/36** (2006.01); **B01D 46/54** (2006.01); **B01D 46/62** (2022.01); **B01D 46/88** (2022.01); **F24F 8/99** (2021.01)

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See references of WO 2022123453A1

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## DOCDB simple family (application)

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