

Title (en)

GRAVITY FILTER FILTERING DEVICE FOR SOFTENING AND PURIFYING DRINKING WATER

Title (de)

FILTERVORRICHTUNG FÜR SCHWERKRAFTFILTER ZUM ERWEICHEN UND REINIGEN VON TRINKWASSER

Title (fr)

DISPOSITIF DE FILTRATION À FILTRE GRAVITAIRE POUR ADOUCISSEMENT ET PURIFICATION D'EAU POTABLE

Publication

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Application

EP 20746705 A 20200709

Priority

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- IB 2020056449 W 20200709

Abstract (en)

[origin: WO2021014259A1] The invention is intended for the purification of drinking water and can be used to improve the quality of drinking water purification in household pitcher-type filters. The gravity filter filtering module comprises a system for fixing the filtering module to the filter funnel, which has an opening for the inlet of water to be purified and for outlet of air; a filter element in the form of a hollow vertical vessel comprising a body made of porous block material with a porous or hermetically sealed bottom, or in the form of a disk made of porous block material. The porous block material is obtained by compression of a heated mixture of powdered starting components comprising activated carbon particles and polymer binder or activated carbon particles, heavy metal sorbent, and polymer binder. The fixing system of the filtering module is connected to the filter element by an adhesive joint or by a mechanical connection. The technical result is the creation of a gravity filter filtering module for drinking water purification, which is characterized by simplicity of its design and by providing a high filtration rate in combination with high effectiveness of water purification of 92 % - 98 % and an operating capacity of the filtering module of up to 450 liters.

IPC 8 full level

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CPC (source: EP RU)

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Citation (search report)

See references of WO 2021014259A1

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