

a 2004 0013

The invention relates to the field of water treatment, in particular to water purification in household conditions.

A filter element is proposed for water purification, containing in the first and the last layer expanded highly porous polypropylene with the pore dimension from 0,2 up to 100  $\mu\text{m}$ , a sorbent layer and ion-exchange materials. As sorbent is used iodine-modified activated coconut coal, with iodine index of 1000...1100 mg/g, and as ion-exchange materials is used cationite on base of sulphonic acid and anionite on base of dimethylamine with the exchange capacity of 2,0 eq/L and 1,2 eq/L, respectively, the layer sequence being: iodine-modified activated coconut coal , cationite and anionite, where each layer is separated from the following one by a layer of expanded highly porous polypropylene.

The result of the invention consists in the water softening, purification thereof from microorganisms, organic and inorganic inclusions.

Claims: 1