

## ELECTRICAL DEVICE WITH CHARGED COLUMN FOR DE-CONTAMINATION OF WATER

The filtration unit designed for the treatment of low-quality water by removal of contaminants from water is based on an electrically charged column matrix with physically entrapped adsorbents with specific type of algal compounds to enhance their adsorption capacity is developed by CIFE. The column matrix consists of 4 layers of a porous non-toxic, non-biodegradable, non-corrosive material. A gradient of electric fields is generated in the matrix by placing the positive and negative terminals of a DC supply at the opposite ends of the column.

