

A microbial fuel cell comprises a body filled with granules of activated carbon for immobilization of microorganisms on thereof, in which anode and cathode are located, which are partitioned by a proton-permeable membrane. The element comprises at least two anodes and cathodes. Every cathode and anode is instilled in a hollow bar made of hard porous material. In the bar there is a hole for air barbotage of catalyst. The membrane is made as a shell of the bar. Pairs – anodes and cathodes are capable of parallel and series connection to each other.