

BIPOLAR ELECTRODE AND SUPERCAPACITOR DESALINATION DEVICE, AND METHODS OF MANUFACTURE

ABSTRACT

A bipolar electrode comprises an intermediate layer comprising one or more carbon materials. The bipolar electrode further comprises first and second layers disposed on opposite surfaces of the intermediate layer and configured to act as an anode and a cathode. The first and second layers comprise at least one of one or more electrically conductive carbon materials and one or more conductive polymers. A supercapacitor desalination device and a method for making the bipolar electrode are also presented.

[FIG.2]