

METHOD FOR SANITIZING AN ELECTRODEIONIZATION DEVICE

ABSTRACT OF THE DISCLOSURE

[045] The present invention has the technical effect of disinfecting an EDI device of a water purification system. The present invention may be applied to an EDI device having an internal chamber comprising ion exchange components. The internal chamber may also comprise a plurality of ion selective membranes positioned between the anode and the cathode compartments. As illustrated and described herein, embodiments of the present invention seek to sanitize the EDI device without sanitization chemicals or a water supply.

[046] Embodiments of the present invention disinfect the EDI device by applying electrical power. Here an electrical supply device heats the EDI device, through resistive heating of the internal chambers, to a sanitization temperature. The resistive heating is a result of ionic movement through the internal chamber. The friction that is created through the ionic movement increases the temperature within the internal chamber.

[FIG.2]