

**SYSTEM FOR ELECTRICALLY DECOUPLED, HOMOGENEOUS TEMPERATURE CONTROL OF AN
ELECTRODE BY MEANS OF HEAT CONDUCTION TUBES, AND PROCESSING FACILITY
COMPRISING SUCH A SYSTEM**

Abstract

The invention relates to a system for temperature control of an electrode. The system comprises at least one heat pipe, a coupling element and a temperature control apparatus. In this case, the heat pipe is suitable for being arranged in the electrode at least in part and by means of at least one first end. The coupling element is suitable for heating or cooling a second end of the heat pipe, while the temperature control apparatus is suitable for heating or cooling the coupling element. In this case, the electrode and the temperature control apparatus are galvanically separated from one another. The invention further relates to a treatment facility comprising a treatment chamber and at least one electrode inside the treatment chamber and at least one system of this kind for temperature control of an electrode.

[Fig. 1A]