

Title (en)
ELECTROPHYSIOLOGICAL MEASURING ARRANGEMENT AND ELECTROPHYSIOLOGICAL MEASURING METHOD

Title (de)
ELEKTROPHYSIOLOGISCHE MESSANORDNUNG UND ELEKTROPHYSIOLOGISCHES MESSVERFAHREN

Title (fr)
MONTAGE ET PROCÉDÉ DE MESURE ÉLECTROPHYSIOLOGIQUE

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Abstract (en)
[origin: WO2014173488A1] The present invention relates to an electrophysiological measuring arrangement (100) and to an electrophysiological measuring method, in which a carrier (12) made of a carrier material (12') and an aperture region (10) in the region of the carrier (12) are provided for the controlled sealing accumulation of a biological object (O). The aperture region (10) is formed with at least one aperture (14) and with a wall region (11) which, as the aperture inner wall (11i), surrounds the aperture (14), forming the latter. At least the wall region (11) is formed with a region (20) made of a material (12'') which, at least in terms of the composition thereof, substantially corresponds to the carrier material (12') outside the aperture region (10) but has an increased concentration of at least one ion species in comparison therewith, with the result that the sealing accumulation of a biological object (O) in the aperture region (10) can be promoted by this increased concentration on or in at least the aperture inner wall (11i) of the aperture (14), wherein the concentration of the at least one material species or ion species is modified to a depth of approximately 10 nm from the top side (12a) or surface of the carrier (12) and, in particular, from the aperture inner wall (11i).

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