

Title (en)
ELECTRODE COMPONENT GROUP FOR A CORROSION MEASURING SYSTEM FOR DETECTING CORROSION IN A METAL EMBEDDED IN A COMPONENT MADE OF AN ION-CONDUCTING MATERIAL, IN PARTICULAR CONCRETE

Title (de)
ELEKTRODENBAUGRUPPE FÜR EIN KORROSIONSMESSSYSTEM ZUM FESTSTELLEN VON KORROSION VON IN EINEM BAUTEIL AUS IONENLEITENDEM WERKSTOFF, INSBESONDERE BETON, EINGEBETTETEM METALL

Title (fr)
BLOC D'ELECTRODES POUR SYSTEME DE MESURE PERMETTANT DE DETERMINER LA CORROSION D'UN METAL ENCASTRE DANS UN ELEMENT DE CONSTRUCTION CONSTITUE D'UN MATERIAU CONDUCTEUR D'IONS, NOTAMMENT LE BETON

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Application
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Abstract (en)
[origin: DE19706510C1] The invention relates to an electrode component group for a corrosion measuring system designed to detect corrosion in a metal embedded in a component made of an ion-conducting material, in particular concrete. Said electrode component group comprises several electrodes (24) made preferably of the same metal as that embedded in the component and arranged within said component (36) at a mutual distance to each other. The electrodes can be connected to a measuring circuit by means of electric cables (32) leading out of the component. The electrode component group is characterized by a rod-shaped base element (4) which between two flange parts (6, 18) provided for at its opposite ends has a plurality of spacer rings (20), between which are alternately arranged sealing rings (26) and the electrode rings (24) forming the electrodes, the electric cables connected to the electrode rings being lead to the outside radially within the rings. The electrode component group further comprises a device (12, 14) for reducing the distance between the flange parts (6, 18), whereby the sides of the spacer rings, sealing rings and electrode rings are configured in such a way that when the distance between the spacer rings is reduced, the sealing rings and electrode rings open up radially so that the sealing rings and electrode rings, after insertion of the electrode component group into a hole (34) embodied in the component (36), lie snugly against the wall of the hole after the distance between the flange parts has been reduced.

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