

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

Publication

EP 0961927 A1 19991208 (DE)

Application

EP 98906943 A 19980210

Priority

- DE 19706510 A 19970219
- EP 9800728 W 19980210

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.

IPC 1-7

G01N 17/02

IPC 8 full level

G01N 17/02 (2006.01); **G01N 27/26** (2006.01); **G01N 27/28** (2006.01); **G01N 33/38** (2006.01)

CPC (source: EP KR US)

G01N 17/02 (2013.01 - EP KR US); **G01N 27/283** (2013.01 - EP US); **G01N 33/38** (2013.01 - EP US)

Citation (search report)

See references of WO 9837403A1

Designated contracting state (EPC)

AT CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

DE 19706510 C1 19980610; AU 6296498 A 19980909; CA 2282304 A1 19980827; EP 0961927 A1 19991208; JP 2001513881 A 20010904; JP 3742934 B2 20060208; KR 20000075489 A 20001215; NO 993975 D0 19990818; NO 993975 L 19990818; US 6281671 B1 20010828; WO 9837403 A1 19980827

DOCDB simple family (application)

DE 19706510 A 19970219; AU 6296498 A 19980210; CA 2282304 A 19980210; EP 9800728 W 19980210; EP 98906943 A 19980210; JP 53621698 A 19980210; KR 19997007548 A 19990819; NO 993975 A 19990818; US 36798699 A 19990819