SG 9702243-8
RTMP's copy

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G01N 27/26 — A1

(11) International Publication Number: WO 96/17241

(43) International Publication Date: 6 June 1996 (06.06.96)

(21) International Application Number: PCT/US95/15347

(22) International Filing Date: 22 November 1995 (22.11.95)

(30) Priority Data:
08/345,569 28 November 1994 (28.11.94) US

(71) Applicant: AMERON, INC. [US/US]; 245 South Los Robles Avenue, Pasadena, CA 91101-2894 (US).

(72) Inventor: HALL, Sylvia, C.; 6908 Woodward Avenue, Bell, CA 90201 (US).

(74) Agent: MARANTIDIS, Constantine; Christie, Parker & Hale, P.O. Box 7068, Pasadena, CA 91109-7068 (US).

(81) Designated States: AU, BR, CA, CN, JP, MX, NO, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.

(54) Title: DETECTION OF POTENTIAL FOR CORROSION OF STEEL REINFORCED COMPOSITE PIPE

(57) Abstract

This method and apparatus detect the potential for corrosion of pipes having walls fabricated out of conductive material (14) embedded in non-conductive material, the conductive material (14) being sandwiched between inner (10) and outer (12) linings, due to contact between a conductive medium foreign to the pipe and the conductive material (14) embedded within the pipe wall. The electric potential between the foreign medium and the pipe conductive material (14) is determined. The stability of the potential is then ascertained. If the potential does not vary beyond a predetermined range over a period of time, the potential is deemed stable and is indicative of electrical contact between the foreign medium and the conductive material (14) within the pipe, fostering corrosion. An unstable voltage indicates lack of electrical contact.

