

Title (en)

METHOD OF DETECTING CORROSION IN PIPELINES AND THE LIKE BY COMPARATIVE PULSE PROPAGATION ANALYSIS

Title (de)

VERFAHREN ZUM NACHWEIS VON KORROSION IN ROHRLEITUNGEN O.A. MIT HILFE VERGLEICHENDER
PULSAUSBREITUNGSANALYSE

Title (fr)

PROCEDE DE DETECTION DE CORROSION DANS DES PIPELINES ET ANALOGUE PAR ANALYSE COMPARATIVE D'IMPULSIONS DE
PROPAGATION

Publication

EP 0998678 A4 20020213 (EN)

Application

EP 98930074 A 19980604

Priority

- US 9811683 W 19980604
- US 4866097 P 19970604

Abstract (en)

[origin: WO9855877A1] A method of detecting corrosion on an elongate member (10), such as a pipe (10). Far side and near side electric pulses are transmitted into a magnetically permeable pipe (10) at spaced locations to travel toward one another. These are synchronized to intersect at various locations on the pipe (10). The resulting waveforms are analyzed by combining adjacent waveforms resulting from pulses intersection at spaced locations. Two combined waveforms are analyzed by subtracting one from the other to produce a difference waveform and the difference waveforms are compared to detect corrosion.

IPC 1-7

G01R 29/02; G01N 17/00

IPC 8 full level

G01N 17/00 (2006.01)

CPC (source: EP)

G01N 17/00 (2013.01)

Citation (search report)

- [X] EP 0399583 A2 19901128 - BURNETT GALE D [US]
- [X] WO 9628743 A1 19960919 - PROFILE TECHNOLOGIES INC [US], et al
- [A] US 5189374 A 19930223 - BURNETT GALE D [US]
- [A] US 5243294 A 19930907 - BURNETT GALE D [US]
- See references of WO 9855877A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9855877 A1 19981210; AU 7954598 A 19981221; CA 2293500 A1 19981210; CA 2293500 C 20101214; EP 0998678 A1 20000510;
EP 0998678 A4 20020213

DOCDB simple family (application)

US 9811683 W 19980604; AU 7954598 A 19980604; CA 2293500 A 19980604; EP 98930074 A 19980604