

Title (en)

NON-DESTRUCTIVE AND ON-LINE METHOD AND APPARATUS FOR DETERMINING THE MECHANICAL PROPERTIES OF STAINLESS STEEL CABLES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ZERSTÖRUNGSFREIEN ON-LINE BESTIMMUNG DER MECHANISCHEN EIGENSCHAFTEN VON ROSTFREIEN STAHLKABELN

Title (fr)

PROCEDE ET APPAREIL NON DESTRUCTIFS ET EN LIGNE DE DETERMINATION DES PROPRIETES MECANQUES DE CABLES EN ACIER INOXYDABLE

Publication

EP 1076821 A1 20010221 (EN)

Application

EP 99910640 A 19990322

Priority

- IL 9900152 W 19990322
- IL 12423798 A 19980427

Abstract (en)

[origin: WO9956122A1] Method and apparatus for determining the mechanical properties of stainless steel cables or wires, which compare the amount of martensitic phase induced by strain and the original austenitic phase in the cable under test. The original magnetic phase is determined by taking out a baseline reading of the BS for a master cable, chosen, for each stainless steel cable to be tested, from among the cable or an equivalent cable, and the amount of martensitic phase is determined by taking out successive readings of the BS for the cable. Comparison of the amount of martensitic phase induced by strain to the original magnetic phase is effected by determining a martensite index, which is the ratio of two phase parameters, which refer to the cable under test and to the master cable, respectively.

IPC 1-7

G01N 27/72

IPC 8 full level

G01N 27/72 (2006.01)

CPC (source: EP)

G01N 27/725 (2013.01)

Citation (search report)

See references of WO 9956122A1

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 9956122 A1 19991104; AU 2953999 A 19991116; EP 1076821 A1 20010221

DOCDB simple family (application)

IL 9900152 W 19990322; AU 2953999 A 19990322; EP 99910640 A 19990322