Title (en)

Magnetic-inductive device for the control of multiple steel-wire ropes

Title (de)

Gerät für magnetisch-induktive Kontrole von mehreren Stahlseilen

Title (fr)

Dispositif de controle magnétique-inductif de plusieurs cables d'acier

Publication

EP 1186565 A3 20021030 (EN)

Application

EP 01830546 A 20010821

Priority

IT TS20000006 A 20000822

Abstract (en)

[origin: EP1186565A2] This device permits the non-destructive testing of multiple steel wire ropes; it is composed of two connected moduli (1, 2); each modulus (1, 2) has at least one magnet (5), at least one coil or more permanent magnets (5), one or more coils (7, 7.1), one signal power point (8), two rollers (14) and a shell; the shell is composed of two lateral plates (9), an upper plate (10), a lower plate (11), a fore plate (12) and a back plate (13); the magnets (5), fixed to the upper plate (10) and the lower plate (11), form with these pole pieces a magnetic inductor; the magnets (5) are placed on one or more planes, parallel to the plane of the multiple wire ropes (6); any discontinuity of the moving wire ropes (6) creates perturbations of the magnetic field, generating electric power which is transferred to an analogical recorder; this recorder can amplify it and print on paper the diagram showing the state of the wire ropes (6). <IMAGE>

IPC 1-7

B66B 7/12

IPC 8 full level

B66B 7/12 (2006.01)

CPC (source: EP)

B66B 7/123 (2013.01)

Citation (search report)

- [A] US 5828213 A 19981027 - HICKMAN JACK R [US]
- [A] US 4427940 A 19840124 - HIRAMA YUTAKA [JP], et al

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EP1847501A3; JPWO2017029977A1; JP2015166697A; CN103449280A; CN112147212A; EP1914186A1; CN114084766A; CN110944923A; CN114084767A; US10222351B2; JPWO2015166533A1; JP2019018943A; JP2022500663A; WO2017029977A1; WO2015166533A1; US10539533B2

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