Title (en)

SENSOR DEVICE FOR INDICATING WEAR STATES ON CONTACT BODIES

Title (de)

SENSOREINRICHTUNG ZUR SIGNALISIERUNG VON VERSCHLEISSZUSTÄNDEN AN SCHLEIFKÖRPERN

Title (fr)

DISPOSITIF DETECTEUR PERMETTANT LA SIGNALISATION D'ETATS D'USURE SUR DES CORPS DE FROTTEMENT

Publication

EP 1704066 A1 20060927 (DE)

Application

EP 05700786 A 20050104

Priority

- EP 2005000146 W 20050104
- DE 102004001799 A 20040105

Abstract (en)

[origin: WO2005065985A1] The invention relates to a sensor device for indicating wear states on contact bodies of pantographs of electrically driven vehicles, said contact bodies being fixed to metallic supports. The aim of the invention is to provide a sensor device that permits, at practically any location on the contact strip, the installation of signal transmitters that can indicate the respective wear state of the contact strip without interrupting the driving operation. To this end, the invention employs the use of a sensor device characterized in that it is comprised of blind holes (3) made in the contact bodies (2), of transmission channels (6) that are connected to the blind holes (3), and of a monitoring unit, whereby the blind holes (3) and monitoring unit are connected via the transmission channels (6). In addition, a medium that generates signals in the instance of a specified wear state is located inside the blind holes (3), and a medium that transmits these signals to the monitoring unit is located inside the transmission channel.

IPC 8 full level

B60L 5/20 (2006.01)

CPC (source: EP US)

B60L 5/20 (2013.01 - EP US); **B60L 5/205** (2013.01 - EP US); Y02T 90/16 (2013.01 - EP US)

Citation (search report)

See references of WO 2005065985A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005065985 A1 20050721; CN 1906054 A 20070131; DE 102004001799 A1 20050728; DE 102004001799 B4 20081211; EP 1704066 A1 20060927; RU 2006129322 A 20080227; RU 2349465 C2 20090320; US 2007272506 A1 20071129; US 7430922 B2 20081007

DOCDB simple family (application)

EP 2005000146 W 20050104; CN 200580001943 A 20050104; DE 102004001799 A 20040105; EP 05700786 A 20050104; RU 2006129322 A 20050104; US 59690505 A 20050104