

Title (en)
A BOGIE AND MONITORING SYSTEM FOR ACQUIRING, PROCESSING AND TRANSMITTING OPERATING DATA OF THE BOGIE

Title (de)
EIN DREHGESTELL UND EIN ÜBERWACHUNGSSYSTEM FÜR DIE ERFASSUNG, DAS MANAGEMENT UND DIE ÜBERTRAGUNG DER BETRIEBSDATEN DER DREHGESTELLE

Title (fr)
UN BOGIE ET UN SYSTÈME DE SURVEILLANCE POUR RÉCEPTION, TRAITEMENT ET TRANSMISSION DE DONNÉES OPERATIVES DU BOGIE

Publication
EP 3300987 B1 20211110 (EN)

Application
EP 17191681 A 20170918

Priority
IT 201600094095 A 20160920

Abstract (en)
[origin: EP3300987A1] A monitoring system for acquiring, processing and transmitting operating data of a bogie (1), in which the bogie (1) comprises: - a bogie frame (2) which supports at least one railway axle (3); - at least one axle box (5) arranged at one end portion of the railway axle (3); - at least one covering device (6) of the axle box attached to the axle box (5) and adapted to define a respective inner compartment between the axle box (5) and the covering device (6); in which the monitoring system comprises: - at least one sensor node (20a, 20b), associated with the axle box (5) and comprising at least one sensor (21, 22) positioned in the inner compartment, adapted and configured to acquire operating data of the axle box (5) ; - a concentrator node (50) attached to the bogie frame outside the covering device of the axle box (5), the concentrator node (50) being operatively connected to the at least one sensor node (20) by means of a wired connection line (40) to receive said acquired data, in which the concentrator node (50) comprises at least one local processing unit (51) adapted to process the acquired data and obtain processed data, and a radio communication interface (54, 55) for transmitting said processed data outside the concentrator node (50).

IPC 8 full level
B61F 5/50 (2006.01); **B61F 15/20** (2006.01); **B61K 9/04** (2006.01); **B61L 15/00** (2006.01)

CPC (source: EP)
B61F 5/50 (2013.01); **B61F 15/20** (2013.01); **B61K 9/04** (2013.01); **B61L 15/0027** (2013.01); **B61L 15/0081** (2013.01)

Citation (examination)
WO 2007076107 A2 20070705 - AFS KEYSTONE INC [US], et al

Cited by
CN112498413A; CN113247046A; EP3792141A1; US10988150B2; WO2020198801A1; WO2019180481A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3300987 A1 20180404; EP 3300987 B1 20211110; IT 201600094095 A1 20180320

DOCDB simple family (application)
EP 17191681 A 20170918; IT 201600094095 A 20160920