

Title (en)
Method for determining the track course of a track bound vehicle

Title (de)
Verfahren zur Bestimmung des Spurverlaufes eines schienengebundenen Fahrzeugs

Title (fr)
Method for determining the track course of a track bound vehicle

Publication
EP 2796337 B1 20151209 (EN)

Application
EP 13164791 A 20130422

Priority
EP 13164791 A 20130422

Abstract (en)
[origin: EP2796337A1] Method for determining the track course of a track bound vehicle, the method comprising the following steps: a) defining a first error distribution of a curvature determination error for a plurality of erroneously measured track curvatures around a first estimated curvature value k_1 , b) defining a first threshold T_1 according to a predefined first wrong decision probability, whereby any measured track curvature beyond this threshold is considered not to be the first estimated curvature value k_1 , c) defining a second error distribution of a curvature determination error for a plurality of erroneously measured track curvatures around a second estimated curvature value k_2 , the first estimated curvature value k_1 being smaller than the second estimated curvature value k_2 , d) defining a second threshold T_2 according to a predefined second wrong decision probability, whereby any measured track curvature beyond this threshold is considered not to be the second estimated curvature value k_2 , the second threshold T_2 being located on this end of the second error distribution facing towards the first error distribution, e) whereby the distance between the first and second estimated curvature values k_1 and k_2 is chosen such that $T_1 = T_2$ or $T_1 < T_2$, f) measuring a track curvature of the track bound vehicle, whereby the measured curvature value is considered to be k_1 if it is $< T_1$ and is considered to be k_2 if it is $> T_2$.

IPC 8 full level
B61L 25/02 (2006.01); **B61L 15/00** (2006.01)

CPC (source: EP)
B61L 25/026 (2013.01); **B61L 2205/04** (2013.01)

Cited by
CN112531683A; CN111866709A; EP3499271A1; CN116828398A; US2019143963A1; CN107664994A; CN111854776A

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 2796337 A1 20141029; EP 2796337 B1 20151209

DOCDB simple family (application)
EP 13164791 A 20130422