Title (en)
DEVICE, SYSTEM AND METHOD FOR POSITION SIGNAL FILTERING IN ACTIVE HEAVE COMPENSATION

Title (de)
VORRICHTUNG, SYSTEM UND VERFAHREN ZUR POSITIONSSIGNALFILTERUNG BEI DER AKTIVEN HÖRKOMPENSATION

Title (fr)
DISPOSITIF, SYSTÈME ET PROCÉDÉ POUR FILTRER UN SIGNAL DE POSITION DANS LA COMPENSATION ACTIVE DU TANGAGE

Publication
EP 3854747 A1 20210728 (EN)

Application
EP 20153116 A 20200122

Priority
EP 20153116 A 20200122

Abstract (en)
There is disclosed an apparatus for filtering and forecasting of acceleration data from a motion reference unit, the apparatus being adapted to provide an instant output acceleration data point by:- receiving a plurality of measured acceleration data points from a motion reference unit;- based on the received, measured acceleration data points, calculate a deviation in acceleration between an instant, measured acceleration data point and a previous output acceleration data point;(a) if the absolute value of the calculated deviation exceeds a predetermined value or if the instant or previous, measured acceleration data point is void, then calculate an instant, modelled acceleration data point based on average deviation between previous acceleration data points and use modelled acceleration data point as instant acceleration data point output;(b) if the absolute value of the calculated deviation does not exceed a pre-determined value and the instant or previous acceleration data points are not void, then accept instant measured acceleration data point as acceleration data point output and use the accepted instant acceleration data point to calculate an updated average deviation between acceleration data points for forecasting of future acceleration data points under (a); and- use the instant acceleration data point output from (a) and/or (b) to calculate an instant, measured velocity data point as input to Kalman filter.There is also disclosed a system including the apparatus, a method for filtering and forecasting of acceleration data as well as a non-transitory computer readable medium encoded with instructions for executing the method.

IPC 8 full level
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CPC (source: EP)
B63B 27/10 (2013.01); **B66C 13/02** (2013.01); **B66D 1/525** (2013.01); B63B 2017/0072 (2013.01)

Citation (search report)
- [A] WO 2011034435 A1 20110324 - KONGSBERG SEATEX AS [NO], et al
- [A] EP 2123588 A1 20091125 - LIEBHERR WERK NENZING [AT]
- [A] WO 2012161584 A1 20121129 - OPTILIFT AS [NO], et al

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

Designated extension state (EPC)
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DOCDB simple family (publication)
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