

Title (en)
A LOADER CRANE SYSTEM

Title (de)
LADEKRANSYSTEM

Title (fr)
SYSTÈME DE GRUE DE CHARGEUR

Publication
EP 4174014 A1 20230503 (EN)

Application
EP 21205993 A 20211102

Priority
EP 21205993 A 20211102

Abstract (en)

A loader crane system (2) comprising a crane (4) configured to be mounted to a vehicle (6), the crane comprises a movable crane arm (8) comprising at least one telescopic boom, and a working tool arranged at a crane tip to perform a crane operation. The crane system (2) further comprises a monitoring unit (10) configured to monitor the operation of the crane (4), to receive operation data (11) related to the operations of the crane, and to analyze, compile and transmit said operation data to an external unit (12). The crane (8) comprises a crane control unit (14) and a sensor system (16) configured to define the relative positions of parts of the movable crane arm (8) to determine a parking state of the movable crane arm (8), the parking state is ON if the crane arm (8) is in its parked position and the parking state is OFF if the crane arm (8) not is in its parked position, and to generate a crane arm parking state signal (18) in dependence thereto. The monitoring unit (10) is configured to determine the state of the crane arm (8) based upon the received crane arm parking state signal (18), and to identify a working visit having a working visit duration from the point of time the crane arm parking state changes from ON to OFF to the point of time the crane arm parking state changes back to ON again. The monitoring unit (10) is further configured to designate the identified working visit as a validated working visit provided that at least one of a plurality of predetermined criteria is fulfilled, comprising that at least one crane operation is performed during the working visit, wherein the monitoring unit (10) is configured to identify operation data related to crane operations performed during a validated working visit.

IPC 8 full level
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