

Title (en)

METHOD AND ARRANGEMENT FOR MONITORING THE WORKING RANGE WHEN AN ITEM OF MACHINERY IS MOVING

Title (de)

VERFAHREN UND ANORDNUNG ZUR ÜBERWACHUNG DES ARBEITSBEREICHES BEIM BEWEGEN EINES FORTBEWEGBAREN ARBEITSGERÄTES

Title (fr)

PROCEDE ET DISPOSITIF DE SURVEILLANCE DE LA ZONE DE TRAVAIL LORS DU DEPLACEMENT D'UN ENGIN DE TRAVAUX

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Application

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Abstract (en)

[origin: WO9746767A1] The invention describes a method and arrangement with which the working ranges (AZU) of excavators, other earth-moving machinery, and agricultural machines can be monitored. For this purpose, individual parts of the machines are described by volume models (V10-V70), and aerials (A1, A2) for a global positioning system are provided on the machine itself (AG). In a control system of the machine, the exact spatial location of attachments (AT) on the machine is determined by means of their motion data and current position data, which are determined by sensors, for example. This exact spatial location is compared with a working range (AZU) that has been entered previously, for example by a "teach-in" method, or by CAD data. If the machine or one of its attachments (AT) threatens to leave the working range (AZU), the movement is either stopped, slowed, or an alarm is sounded.

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See references of WO 9746767A1

Cited by

US9745721B2; US10655301B2; US8768579B2; US9567725B2; US10227754B2; US11028560B2; US12018463B2

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