

Title (en)

METHOD FOR DETERMINING THE POSITION AND SPATIAL ORIENTATION OF A TOOL OF AN AGRICULTURAL VEHICLE

Title (de)

VERFAHREN ZUR POSITIONS- UND RAUMLAGEBESTIMMUNG EINES WERKZEUGS EINES LANDFAHRZEUGES

Title (fr)

PROCÉDÉ PERMETTANT DE DÉTERMINER LA POSITION ET L'ORIENTATION SPATIALE D'UN OUTIL D'UN VÉHICULE AGRICOLE

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Application

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Abstract (en)

[origin: WO2022200220A1] The invention relates to a method for determining the position and spatial orientation of a soil-working tool (2) on an adjustable boom (3) of an agricultural vehicle (1), having the steps of: (S1100) determining a position data set (PDS), which indicates the position of an orientation-and-position-determining unit (8) of an orientation-and-position-determining assembly (4) on the tool (2), using a GNSS module (702) of the orientation-and-position-determining unit (8); (S1200) determining an orientation data set (LDS), which indicates the spatial orientation of the orientation-and-position-determining unit (8), using an orientation sensor assembly (703) of the orientation-and-position-determining unit (8); (S1300) evaluating the position data set (PDS) and the orientation data set (LDS) using a calibration data set (KDS, KDS') in order to determine an output data set (ADS) which indicates the spatial orientation and position of the tool (2); and (S1400) outputting the output data set (ADS).

IPC 8 full level

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