

Title (en)

AGRICULTURAL OR FORESTRY APPARATUS, SENSOR DEVICE AND METHOD FOR CONTROLLING THE APPARATUS

Title (de)

LAND- ODER FORSTWIRTSCHAFTLICHES GERÄT, SENSORVORRICHTUNG UND VERFAHREN ZUM STEUERN DES GERÄTS

Title (fr)

APPAREIL AGRICOLE OU FORESTIER, DISPOSITIF DE DÉTECTION ET PROCÉDÉ DE COMMANDE DE L'APPAREIL

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2023037225A1] The invention relates to an agricultural or forestry apparatus (1), comprising a processing tool (2), the position (L) of which can be controllably adjusted, and a sensor device (4). The sensor device (4) is designed to detect an elevated obstacle (3) in a processing close range of the processing tool (2) and, in the case of a detected obstacle (3), to trigger an adjustment in the position (L) of the processing tool (2). The sensor device (4) comprises at least one camera module (5) having a light-emitting unit (6) and having an image sensor (7) with a plurality of image sensor elements. The light-emitting unit (6) is designed to emit light of a predefined characteristic into the processing close range. The image sensor (7), the field of view (8) of which lies in the processing close range, is designed to determine an image of at least part of the processing close range with image-sensor-element-specific distance information on the basis of the emitted light reflected onto the image sensor (7) by an obstacle (3) in the processing close range. The sensor device (4) is also designed to contactlessly detect an obstacle (3) in the processing close range by evaluation of the determined distance information and, in the case of a detected obstacle (3), to change or produce control values and/or control data for adjustment of the position (L) of the processing tool (2), such that an otherwise imminent collision of the processing tool (2) with the obstacle (3) detected in the processing close range is avoided.

IPC 8 full level

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