

Title (en)

LARGE MANIPULATOR WITH ARTICULATED MAST THAT CAN BE QUICKLY FOLDED AND UNFOLDED

Title (de)

GROSSMANIPULATOR MIT SCHNELL EIN- UND AUSFALTBAREM KNICKMAST

Title (fr)

MANIPULATEUR DE GRANDE TAILLE PRÉSENTANT UN MÂT ARTICULÉ RAPIDEMENT REPLIABLE ET DÉPLOYABLE

Publication

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Application

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Abstract (en)

[origin: WO2016189169A1] The invention relates to a large manipulator (1), in particular a truck-mounted concrete pump, with a mast pedestal (3), which is rotatable about a vertical axis by means of a rotary drive and which is arranged on a frame (2), an articulated mast (4) which comprises two or more mast arms (5, 6, 7, 8), wherein the mast arms (5, 6, 7, 8) are each pivotably movably connected via articulated joints to the respective adjacent mast pedestal (3) or mast arm (5, 6, 7, 8) by means of a pivot drive, a control unit controlling the drives for the mast movement, and a mast sensor system for detecting the position of at least one point of the articulated mast (4) or a pivot angle (φ_1 , φ_2 , φ_3 , φ_4) of at least one articulated joint. The large manipulator is characterized in that the control unit (17) is additionally designed to limit the speed of the mast movement based on the output signal of the mast sensor system. In addition, the invention relates to a method for controlling the movement of an articulated mast (4) of a large manipulator (1), in particular a truck-mounted concrete pump.

IPC 8 full level

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EP 2386387 B1 20130327 - HUNAN SANY INTELLIGENT CONTROL [CN], et al

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