

ABSTRACT OF THE DISCLOSURE

CONTROL DEVICE AND INVERTER DEVICE OF SUSPENSION
CRANE

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A control device of a suspension crane to transport a suspended load 4 suspended from a trolley 1 via a rope 3 by driving the trolley 1 or a girder 2 includes: a crane simulator unit 11A to
10 simulate a swing angle estimate of the suspended load 4 and a speed estimate of the trolley 1 using a speed command for the trolley 1, a length of the rope 3, a time constant of a speed response, and gravitational acceleration; a swing-stop controller
15 12 to generate a speed correction signal for suppressing the swing of the suspended load 4, by using the speed command for the trolley 1, the swing angle estimate, the speed estimate, a natural angular frequency of the suspended load 4, and a
20 damping coefficient; and a correction unit to add the speed correction signal to the speed command, wherein the control device drives the trolley 1 by the corrected speed command.

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FIG. 5