

BRAKE CONTROL DEVICE FOR INDUSTRIAL VEHICLE

ABSTRACT

5 A brake control device 100 for an industrial vehicle comprises: a map
information acquisition unit 11; a position information acquisition unit 12; a
traveling information acquisition unit 13; an autonomous driving control unit 14 for
executing autonomous driving control including the calculation of a required
deceleration of the industrial vehicle; and a braking force control unit 15 for
10 controlling a braking unit such that the apportionment of a regenerative braking
force and a mechanical braking force can be changed. When a first condition
indicating that a predetermined first time period has elapsed since the industrial
vehicle started going downhill or a second condition indicating that the industrial
vehicle is going down a downhill with an angle larger than or equal to a
15 predetermined angle of inclination is satisfied during the autonomous driving of the
industrial vehicle, the braking force control unit 15 controls the braking unit with a
first apportionment in which the portion of the mechanical braking force is larger
than in a second apportionment for a case where neither the first condition nor the
second condition is satisfied.

20 Fig. 2