~~BRAKE~~ BRAKING CONTROL DEVICE FOR INDUSTRIAL VEHICLE

ABSTRACT

A brake control device ~~100~~ for an industrial vehicle ~~comprises~~includes: 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~~ controlling a braking unit such that a distribution ~~the apportionment~~ of a regenerative braking force and a mechanical braking force is changeable~~can be changed~~. When a first condition indicating that a first predetermined period of ~~first~~ time ~~period~~ has elapsed since the industrial vehicle started traveling ~~going~~ downhill or a second condition indicating that the industrial vehicle is traveling ~~going down a~~ downhill on a downward slope having ~~with an angle larger than or equal to a~~ predetermined gradient or more ~~angle of inclination~~ is satisfied during the autonomous driving of the industrial vehicle, the braking force control unit ~~15~~ controls the braking unit in accordance with a first apportionment in which the ~~portion of the~~ mechanical braking force is larger than that in a second apportionment for a case where neither the first condition nor the second condition is satisfied.

Fig. 2