

ABSTRACT

A charging device according to one embodiment includes a charging unit, a measuring unit, and a detecting unit. The charging unit charges a power storage functional unit included in a vehicle stopping in a rectangular predefined area. The measuring unit is capable of measuring a vertical distance to a point in a first plane that is provided in a first position serving as a roof or a bottom of the vehicle, and that has a gradient of a first angle with respect to a horizontal plane toward an orthogonal direction orthogonal to a traveling direction of the vehicle. The detecting unit detects an angle of inclination of the vehicle with respect to a longitudinal direction based on a first difference, a distance, and the first angle, the first difference being a difference between a first vertical distance to a first point in the first plane and a second vertical distance to a second point in the first plane having a position in the traveling direction different from that of the first point, the distance being a distance between the first point and the second point.