

ABSTRACT

A coupling angle detection device (30A to 30D) acquires a shape information of a target member (40-1 to 40-6) having a prescribed shape and installed in a first vehicle (3, 2) by a shape information acquisition unit (20) installed in a second vehicle (2, 3) and detects an angle formed by a direction specified based on a prescribed condition from the acquired shape information of the target member (40-1 to 40-6) and a front-rear direction of a vehicle body of the second vehicle (2, 3) that is held, as a coupling angle between the first vehicle (3, 2) and the second vehicle (2, 3). The target member (40-1 to 40-6) is installed in the first vehicle (3, 2) such that the specified direction fits a front-rear direction of a vehicle body of the first vehicle (3, 2).

FIG. 2