

[ABSTRACT]

[Title : A TRANSMISSION DEVICE FOR CONVERTING A TORQUE]

5 The Invention Disclosure is a power transmission device. The power transmission device according to one embodiment of the present invention comprises an input gear which is connected to a motor in such a manner as to be rotatable in forward and reverse directions by the motor; a
10 planetary gear train or an internal contact planetary gear train, which is brought into contact with an outer surface of the input gear such that the input gear becomes a center when the planetary gear train or the internal contact planetary gear train contacts the input gear, and which rotates in
15 connection with the rotation of the input gear; a ring gear which has an inner surface where the planetary gear train (internal contact planetary gear train) contacts, and which rotates by the planetary gear train (internal contact planetary gear train) relatively to the planetary gear train
20 (internal contact planetary gear train); a main frame which has a plurality of rollers coupled thereto in a circumferential direction such that the rollers are rotatable relatively to a rack, and which is coupled to a periphery of the ring gear; a non-rotatable rear side fixture which is
25 arranged in the area where the input gear is located; and a non-rotatable front side fixture which is arranged oppositely from the non-rotatable rear side fixture with the ring gear and the main frame interposed there between, and which is coupled to the non-rotatable rear side fixture, as shown in
30 Figure 4.