

MECHANICAL PARKING DEVICE AND METHOD FOR CONTROLLING SAME

ABSTRACT

5 A plurality of traversing rollers 11 for traversing
are provided on both ends of a pallet 10 (or a cage 3 and a
storage shelf 12) in the longitudinal direction. Traverse
direction distances L_a and L_b from the traversing rollers
11 to the boundary portion B differ at the front and rear
10 of the vehicle, and the horizontal distance difference ΔL
between the distances is equal to or greater than a first
threshold value K_1 . Furthermore, a lifting control device
18 implements "re-leveling R" at the front and rear of the
vehicle to correct the pallet support height for the cage 3
15 by lifting or lowering the cage 3 during traversing. Thus,
the pallet 10 can traverse smoothly with the four corners
of the cage 3 suspended by a cord member without being
affected by the weight difference between the front and
rear of the vehicle.

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Fig. 6