

{Abstract}

CHARGING DEVICE FOR MULTILEVEL MECHANICAL PARKING FACILITY AND
MULTILEVEL MECHANICAL PARKING FACILITY EQUIPPED WITH THE SAME

A charging device for a multilevel mechanical parking facility includes a power reception device (23) at a pallet (15) and a power transmission device (24) at a vehicle storage rack (14). The power reception device (23) has an integrated configuration of a power reception unit (26) receiving power from the power transmission device (24) and a receptacle unit (27) to which the electric vehicle is connected. The power reception unit (26) is disposed on an upper surface of a curb portion (18) of the pallet (15) with the receptacle unit (27) placed thereon. The power reception unit (26) includes a contact housing (31) having an opening (33) opened outward in a width direction of the pallet (15), and a power reception contact (41) set back from the opening (33). The power reception contact (41) contacts a power supply contact (73) of the power transmission device (24) to receive power.

FIGURE 4