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(54) **METHOD FOR REDUCING STRAY CURRENT PRODUCED BY POWER SUPPLY BACKFLOW FOR SUBWAY WALKING RAIL**

(57) A system and a method for reducing stray current produced by power supply backflow for a subway walking rail, which is suitable for a power supply system of a rail backflow used by a direct-current power supply subway train. A parallel inductor, a super capacitor, an IGBT switch, a contactor, and the like are used to form a connection branch, and intelligently control the connec-

tion and flowing direction of a current, to effectively filter harmonic components of a backflow, so that leakage of harmonic components of a tray current produced by harmonic waves generated by an inverter switch circuit of the train to the outside of the walking rail can be effectively reduced, thereby preventing other facility devices from being harmed by electrochemical corrosion.

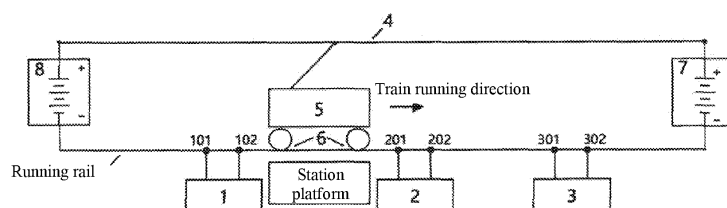


Fig. 2(a)