

Concept of Storage Battery Electricity Source Railcar and Power Supplying Procedure to e.m.u.-trains

Masamichi OGASA

Here we propose a concept of a storage battery electricity source railcar to run e.m.u. (electric multiple unit)-trains on non-electrified lines of a middle distance beyond 100 km. This method has advantages in formation possibility as a train and in the total cost of the first few decades in some cases compared to the usual electrification method of a whole line. To embody a battery source car, a circuit configuration and a power supply method when connecting and releasing it to a train has been presented. The procedure of replacing source cars at a nodal station is also specifically described, while preventing electric shocks.