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TOWING DEVICE WITH LOADING DEVICE

Verena Schwaiger
Bertrandt Ingenieurbüro GmbH

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TOWING DEVICE WITH LOADING DEVICE

Technical task:
Today, electric vehicles can be charged at charging stations, by wireless charging, telephone distributors or mobile charging stations.

Initial situation:
If an electric vehicle has no more energy, it usually has to be towed to the next charging station / workshop or charged via a mobile charging station.

Solution:
A charging cable is integrated into a towing device (3), which supplies energy to an electric vehicle (1), which can no longer drive on its own, via a donor vehicle (2). Ideally, the towing device / eyelet can be used to charge the vehicles. In an extended version, an energy exchange is possible via a charging cable (6) which is connected to the charging socket (5) of the vehicles. The towing device can be designed as a pole or as a stable charging cable, which can charge and pull at the same time.

Figure 1

Advantages:
- No loading on a tow truck necessary to remove a vehicle.
- Cheaper service vehicles for dealers.
- The vehicle can be supplied with energy during the towing process.
- Time savings for customers and "towers"
- Possible combination with existing charging cables.