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## TOWING DEVICE WITH LOADING DEVICE

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## TOWING DEVICE WITH LOADING DEVICE

### Technical task:

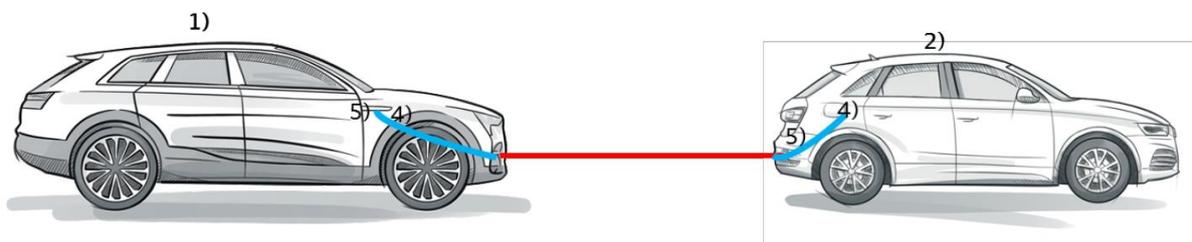
Today, electric vehicles can be charged at charging stations, by wireless charging, telephone distributors or mobile charging stations.

### 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.



- 1) Electric vehicle
- 2) "Energy dispenser" vehicle
- 3) Towing device
- 4) Charging socket
- 5) Charging cable

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.