Claims

1. Device comprising:
   - at least one port (24) for connecting the device to a terminal (10);
   - at least one memory (22) for storing useful data;
   - at least one rechargeable battery (26) for supplying a charging current to the terminal;
   - at least one computer unit (21);

   characterized in that
   the computer unit (21) is configured
   a) to send an authentication request (Req1) to the terminal (10); and
   b) to receive a response (Res1) to the authentication request (Req1), wherein the charging current is interrupted within a charging interval (L1, L2, L3) or the charging interval (L1, L2, L3) is not initialized if successful authentication is not carried out by means of the authentication request (Req1) and response (Res1);
   wherein the computer unit (21) is configured alternately to deliver the charging current to the connected terminal via a bus in charging intervals (L1, L2, L3) and to exchange useful data between the memory (22) and the terminal (10) via the bus in data transfer intervals (D1, D2, D3).

2. Device according to claim 1,
   characterized in that
   the port (24) comprises a serial bus port.

3. Device according to claim 1 or claim 2,
   characterized in that
   at least one charging interval (L1, L2, L3) has a length of less than 5 seconds or at least one data transfer interval (D1, D2, D3) has a length of less than 5 seconds.

4. Device according to any of the preceding claims,
   characterized in that
   the sum of the charging intervals (L1, L2, L3) is at least 10% greater than the sum of the data transfer intervals (D1, D2, D3), during any one minute.

5. Device according to any of the preceding claims,
characterized by:
at least one switch (25) for interrupting a data transfer interval (D1, D2, D3) and/or a data connection.

6. Device according to one of the preceding claims,
characterized in that
the at least one rechargeable battery (26) is a lithium polymer battery or a lithium-ion battery and/or has a capacity of at least 1000 mAh.

7. Device according to one of the preceding claims,
characterized in at least one of
- the at least one memory (22) comprises a semi-permanent memory, and
- the at least one memory (22) has a capacity of at least 500 MB.

8. Device according to one of the preceding claims,
characterized in at least one of
- the bus is a two-wire bus or a six-wire bus, and
- the charging current in the charging interval (L1, L2, L3) is greater than 400 mA.

9. Device according to one of the preceding claims,
characterized in that
the computer unit (21) is configured to carry out the authentication repeatedly at least once per minute or at least once per charging interval (L1, L2, L3).

10. System, comprising:
- a device according to one of the preceding claims;
- a terminal (10) containing an application which is configured to respond to the authentication request (Req1).

11. System according to claim 10,
characterized in that
the application is configured to respond to the authentication request (Req1) only when a predefined requirement of displaying of the useful data output by the application is met.

12. System according to claim 11,
characterized in that
the application is configured to download the useful data to be output from the device.

13. Method for charging a terminal (10), comprising the steps:
- receiving an authentication request (Req1) from a connected device (20) according to one of claims 1 to 9,
- checking whether the useful data of the device (20) are visible on a display (13) of the terminal (10);
- processing the authentication request (Req1);
- sending a response (Res1) to the authentication request (Req1) only when the useful data are visible on the display (13);
- changing over to a charging interval (L1, L2, L3) for charging the terminal (10).

14. Computer-readable storage medium containing instructions which cause at least one computer unit (11) to implement the method according to claim 13 when the instructions are executed by the computer unit (11).