

Claims

1. A medical device connection station (10) comprising a body (14) having a first portion of a docking interface (24) to dock with a corresponding second portion of a docking interface (94) of a medical device (6), a control unit (38) controlling a medical device communication interface (40) for communication with a docked medical device and controlling a server communication interface, wherein the control unit is configured to acquire medical data from a docked medical device via the medical device communication interface and is further configured to connect with and obtain a data session with a server system (8) via the server communication interface, and to thereby transfer the medical data to the server system, wherein the medical device connection station further comprises a lid (62) connected to the body and movable between a first and second position, wherein in the first position the lid prevents first portion of the docking interface from docking with the second portion of the docking interface of the medical device, and wherein in the second position the first portion of the docking interface is operable to dock with the second portion of the docking interface, characterised in that the medical device connection station further comprises a lid movement sensing unit (76) which is configured to sense movement of the lid between the first position and the second position and to thereby provide a signal to the control unit, the control unit configured to receive the signal to initiate the connection to the server system.
2. The connection station according to claim 1, wherein the lid movement sensing unit is mechanically actuated and comprise a switch unit (86) and an actuation member (78), the actuation member configured to engage with and actuate the switch unit as the lid is moved between the first and second position, the switch unit configured to provide the signal.
3. The connection station according to any preceding claim, wherein the lid is pivotally connected to the body.
4. The connection station according to the two preceding claims, wherein the lid movement sensing unit comprises a cam operable to pivot with the lid to actuate the actuation member, the actuation member being pivotally connected to the body.
5. The connection station according to the preceding claim, wherein the switch unit, control unit, medical device communication interface and server communication interface are mounted on a circuit board, the circuit board arranged adjacent a base of the body and distal from the lid.

6. The connection station according to any preceding claim, wherein the lid movement sensing unit is configured to sense movement of the lid from the second position to the first position and to thereby provide a further signal to the control unit, the control unit configured to receive the further signal to terminate the connection to the server system.
7. The connection station according to any preceding claim, wherein the lid and body are configured such that the lid covers the first portion of the docking interface when in the first position.
8. The connection station according to any preceding claim, wherein the server communication interface comprises a cellular network interface including a SIM card connector.
9. The connection station according to any preceding claim, wherein the medical device communication interface comprises an infra-red interface.
10. The connection station according to the preceding claim, wherein the infra-red interface is operable to receive the medical data through a transmissive window (34) in a bottom wall (28) of a docking interface cavity (26).
11. The connection station according to any preceding claim, wherein the server communication interface comprises wired network interface.
12. The connection station according to any preceding claim, wherein the server communication interface comprises WLAN network interface.
13. The connection station according to any preceding claim, comprising a control module having a cryptographic algorithm, the control module configured to encrypt the received medical data, the control unit configured to transfer the encrypted medical data to the server system.
14. The connection station according to any preceding claim, wherein the control unit is configured to terminate the connection to the server system after a predetermined period of time.

15. The connection station according to any preceding claim, wherein the medical device is a drug delivery device.
16. The connection station according to any preceding claim, wherein the medical data is related to a dosage regimen of a medicament.
17. A system to transfer medical data from a medical device to a server system comprising: a medical device operable to acquire medical data, a server system and a medical device connection station according to any of the preceding claims.
18. The system according to the preceding claim further comprising a remote computer device configured to remotely access the medical data of the server system over the internet.
19. A method of transferring medical data from a medical device to a server system using a medical device connection station according to any of claims 1 to ~~17~~16, the method comprising:
 - a. acquiring medical data on the medical device;
 - b. connecting the connection station to the server system by moving the lid from the first position to the second position;
 - c. docking the medical device with the connection station by connecting the first and second portions of the docking interface;
 - d. transferring the medical data from the medical device to the connection station via a communication interface of the medical device and the medical device communication interface of the connection station;
 - e. transferring the medical data from the connection station to the server system via the server communication interface of the connection station.
20. The method according to the preceding claim further comprising encrypting the received medical data on the connection station by means of a cryptographic algorithm of a control module and transferring the encrypted medical data to the server system.
21. The method according to either of the two preceding claims further comprising storing the medical data on a database of the server system.

22. The method according to any one of the three preceding claims further comprising remotely accessing the medical data of the server system over the internet using a computer device.

23. A method of transferring medical data from a medical device to a server system using a medical device connection station according to any of claims 1 to ~~17~~16, the method comprising:

- a. acquiring medical data on the medical device;
- b. connecting the connection station to the server;
- c. docking the medical device with the connection station by connecting the first and second portions of the docking interface;
- d. transferring the medical data from the medical device to the connection station via a communication interface of the medical device and the medical device communication interface of the connection station;
- e. transferring the medical data from the connection station to the server system via the server communication interface of the connection station.