

CLAIMS

1. A clinical diagnostic device monitoring system comprising:

a data retrieving module embeddable in at least one clinical data managing device connected to and monitoring at least one clinical diagnostic instrument, the data retrieving module arranged to obtain a plurality of screen shots including visual bars that reflect status of operation information about operation of said at least one clinical diagnostic instrument, from the at least one clinical data managing device at specified periods without interruption to the ~~device's~~ instrument's operation, and further arranged to communicate the screen shots via a communication link; and

a mediator server connected to the data retrieving module via the communication link and arranged to:

- (i) receive the screen shots from the data retrieving module;
- (ii) analyze the screen shots, to yield screen shots analysis; and
- (iii) extract the status of operation information of said at least one clinical diagnostic instrument based on the screen shots analysis,

wherein the status information comprises at least one of: values measured by the clinical diagnostic instrument, and levels of materials used by the clinical diagnostic instrument,

wherein the screen shots analysis allows the extraction of said status information without further interface with the at least one clinical data managing device nor with the at least one clinical diagnostic instrument.

2. The clinical diagnostic device monitoring system of claim 1, wherein the data retrieving module is further arranged to receive operation related data from the at least one clinical data

managing device, to communicate the operation related data via a communication link to the mediator server, and wherein the mediator server is arranged to analyze the screen shots in view of the operation related data.

3. The clinical diagnostic device monitoring system of claim 1, wherein the extracted status information comprises operational data of said at least one clinical diagnostic instrument.
4. The clinical diagnostic device monitoring system of claim 1, wherein the mediator server is further arranged to detect failures in the extracted status information and to derive remedies to the detected failures.
5. The clinical diagnostic device monitoring system of claim 1, wherein the data retrieving module is further arranged to add a visual identification to the communicated screen shots, and wherein the mediator server is arranged to analyze the screen shots in view of the visual identification.
6. A method comprising:

obtaining, by a data retrieving module embeddable in at least one clinical data managing device connected to and monitoring at least one clinical diagnostic instrument, a plurality of screen shots including visual bars that reflect status of operation information of at least one clinical diagnostic instrument from at least one clinical data managing device connected to said at least one clinical diagnostic instrument at specified periods without interruption to the instrument's operation;

receiving by a mediator server connected to the data retrieving module via a communication link the screen shots from the data retrieving module;

analyzing by the mediator server the screen shots, to yield screen shots analysis; and

extracting by the mediator server status of operation information of said at least one clinical diagnostic instrument based on the screen shots analysis,

wherein the status information comprises at least one of: values measured by the clinical diagnostic instrument, and levels of materials used by the clinical diagnostic instrument,

wherein the screen shots analysis allows the extraction of said status information without interface with the instruments and without any further interface with the device.

7. The method of claim 6, wherein the obtaining the screen shots from the at least one device is carried out at specified periods without interruption to the device's operation.
8. The method of claim 6, further comprising detecting failures in the extracted status information.
9. The method of claim 8, further comprising deriving remedies to the detected failures.
10. The method of claim 6, further comprising performing preventive maintenance to the instruments according to the extracted status information.
11. The method of claim 6, further comprising adding a visual identification to the obtained screen shots, and wherein the analyzing of the screen shots utilizes the visual identification.

12. The method of claim 6, further comprising obtaining operation related data from the at least one clinical diagnostic device, and wherein the analyzing the screen shots is carried out in view of the operation related data.

13. The method of claim 6, wherein the status information comprises at least one of: amounts of reagents and buffers; and physical parameters of reagents and buffers.

14. A non-transitory computer readable storage medium having computer readable program embodied therewith, wherein, when executed by a computer, the computer readable program causes the computer to:

receive via a communication link, from a data retrieving module embeddable in at least one clinical data managing device connected to and monitoring at least one clinical diagnostic instrument, a plurality of screen shots including visual bars that reflect status of operation information of at least one clinical diagnostic instrument, the screen shot obtained from at least one clinical data managing device connected to said at least one clinical diagnostic instrument at specified periods without interruption to the instrument's operation;

analyze the screen shots, to yield screen shots analysis; and

extract the status of operation information of said at least one clinical diagnostic instrument based on the screen shots analysis,

wherein the status information comprises at least one of: values measured by the clinical diagnostic instrument, and levels of materials used by the clinical diagnostic instrument,

wherein the screen shots analysis allows the extraction of said status information without interface with the instruments and without any further interface with the device.

15. The non-transitory computer readable storage medium of claim 14, wherein the computer readable program further causes the computer to add a visual identification to the obtained screen shots, and to analyze the screen shots in view of the visual identification.

16. The non-transitory computer readable storage medium of claim 14, wherein the computer readable program further causes the computer to generate, from the status information, instrument related indications comprising at least one of: detected failures; suggested remedies to detected failures; and suggested preventive maintenance.

17. The non-transitory computer readable storage medium of claim 14, wherein the computer readable program further causes the computer to obtain operation related data from the at least one clinical diagnostic device, and to analyze the screen shots analyzes the screen shots in view of the operation related data.