

CLAIMS

1. A maintenance management system comprising:
a processing device;
a plurality of components in communication with the processing device, each component having a location associated with the component and one or more sensors for capturing usage data associated with the component; and
one or more user devices in communication with the processing device,
wherein the usage data of components is communicated to the processing device and the processing device determines from the usage data whether any of the components requires maintenance, where the location of each respective component requiring maintenance is communicated to at least one of the one or more user devices from the processing device.
2. The maintenance management system according to claim 1 wherein the processing device further determines a maintenance person relevant to the type of maintenance required, and the location of each respective component requiring maintenance is communicated to the user device of the maintenance person relevant to the type of maintenance required.
3. The maintenance management system according to claim 1 or 2 wherein at least one of the components include a location determining device for determining the location associated with the component.
4. The maintenance management system according to any one of claims 1 to 3, wherein at least one of the components requires maintenance when the usage data exceeds a predetermined threshold.
5. The maintenance management system according to any one of claims 1 to 3, wherein at least one of the components requires maintenance when the usage data is outside predefined parameters.
6. The maintenance management system according to any one of claims 1 to 5 wherein, when more than one component requires maintenance, a list ordered in an order to optimize the maintenance is presented on the user device.

7. The maintenance management system according to claim 6, wherein the order is determined on the basis of:

- the location associated with the component, and
- a location of a maintenance person relevant to a type of maintenance required.

8. The maintenance management system according to claim 7, wherein the order is further determined on the basis of an urgency of the component requiring maintenance, wherein the urgency is determined on the basis of:

- a time that has elapsed since the processing device determined that the component requires maintenance; and
- the usage data captured from the one or more sensors associated with the component.

9. The maintenance management system according to claim 6, wherein the system further comprises:

- a timer, the timer counting down from a pre-determined amount of time, wherein the timer is started when the one or more sensors of a component requiring maintenance are de-activated, and wherein, when the timer has elapsed, the one or more sensors are re-activated and the component requiring maintenance is removed from the list.

10. The maintenance management system according to claim 9, wherein the one or more sensors are a plurality of sensors in a single location.

11. A maintenance management method comprising the steps of:

- capturing usage data associated with respective components, each component having a location associated with the component;
- determining from the usage data whether any of the components requires maintenance; and
- communicating the location of each respective component requiring maintenance to at least one user device.

12. The maintenance management method according to claim 11 further comprising the step of determining a maintenance person relevant to the type of maintenance required, wherein the location of each respective component requiring maintenance is communicated to the user device of the maintenance person relevant to the type of maintenance required.

13. The maintenance management method according to claim 11 or 12, wherein at least one of the components requires maintenance when the usage data exceeds a predetermined threshold.
14. The maintenance management method according to claim 11 or 12, wherein at least one of the components requires maintenance when the usage data is outside predefined parameters.
15. The maintenance management method according to any one of claims 11 to 14 wherein, when more than one component requires maintenance, and the method further comprises presenting on the user device a list ordered in an order to optimize the maintenance.
16. The maintenance management method according to claim 15, wherein the order is determined on the basis of:
 - the location associated with the component, and
 - a location of the maintenance person relevant to the type of maintenance required.
17. The maintenance management system according to claim 16, wherein the order is further determined on the basis of an urgency of the component requiring maintenance, wherein the urgency is determined on the basis of:
 - a time that has elapsed since the processing device determined that the component requires maintenance; and
 - the usage data captured from the one or more sensors associated with the component.
18. The maintenance management method according to claim 15, wherein the system further comprises:
 - a timer, the timer counting down from a pre-determined amount of time, wherein the timer is started when the one or more sensors of a component requiring maintenance are de-activated, and wherein, when the timer has elapsed, the one or more sensors are re-activated and the component requiring maintenance is removed from the list.
19. The maintenance management method according to claim 18, wherein the one or more sensors are a plurality of sensors in a single location.