Claims:

1. A high mast lamp post robot for inspecting high mast lamp posts, comprising:

a circular body;

a plurality of roller legs mounted on to the circular body and extended downwards from the circular body, one ends of the roller legs being equidistantly spaced apart and connected to an outer rim of the circular body, another end of each of the roller legs having a roller wheel that is engaged to pole surface of the high mast lamp post, wherein each of the roller legs comprises:

a first leg having one end connected to and outer rim of the circular body and another end linked to a single-wheel roller;

a second leg having one end connected to and outer rim of the circular body and another end linked to a double-wheel roller;

a plurality of monitoring modules being equidistantly spaced apart and mounted on the circular body; and

a control system configured for controlling the roller legs to drive the high mast lamp post with the monitor modules inspecting pole surface of the high mast lamp post;

wherein the first leg is composed of two pivotally connected leg portions, an end of the first leg is connected to the outer rim of the circular body, and another end of the first leg is linked to a single-wheel roller, and the first leg has a hydraulic cylinder rod connected between two distal ends of the leg portions; wherein the control system controls the hydraulic cylinder rod and drives the single-wheel roller of the first leg; and

wherein the second leg is composed of two pivotally connected leg portion, an end of the second leg is connected to the outer rim of the circular body, and another end of the second leg is linked to a double-wheel roller, and the second leg has a hydraulic cylinder rod

connected between two distal ends of the leg portions; wherein the control system controls the hydraulic cylinder rod and drives the double-wheel roller of the second leg.

2. The high mast lamp post robot as claimed in claim 1, wherein the circular body has a circular track formed at an inner rim of the circular body, and at least one arm is installed to the circular track and extends upwardly from the circular body, wherein the arm is able to slide 360 degrees along the circular track to perform a specific task.

3. The high mast lamp post robot as claimed in claim 2, wherein the arm has a grinding module.

4. The high mast lamp post robot as claimed in claim 2, wherein the arm has a painting module.

5. The high mast lamp post robot as claimed in claim 2, wherein the arm has an ultrasonic sensing module.

6. The high mast lamp post robot as claimed in claim 1, wherein the control system comprises a control unit, a power suppling module, a GPS module, an electronic compass and a wireless transmitting module.

7. The high mast lamp post robot as claimed in claim 8, wherein a person on the ground uses a terminal device to transmit a command to the control unit via the wireless transmitting module, and the control unit instructs the high mast lamp post robot to move to a specific position by using the GPS module and the electronic compass based on the received command.

8. The high mast lamp post robot as claimed in claim 8, wherein the control unit 41 determines a position of the high mast lamp post robot by using the GPS module 43 and the electronic compass 44, and transmits the position of the high mast lamp post robot to a terminal device being used by a person on the ground via the wireless transmitting module 45 for position setting.

9. The high mast lamp post robot as claimed in claim 1, further comprising a downward monitoring module mounted underneath the circular body.

10. A high mast lamp post robot for inspecting high mast lamp posts, comprising:

a circular body having a circular track formed at an inner rim of the circular body;

a plurality of roller legs mounted on to the circular body and extended downwards from the circular body, one ends of the roller legs being equidistantly spaced apart and connected to an outer rim of the circular body, another end of each of the roller legs having a roller wheel that is engaged to pole surface of the high mast lamp post;

at least one arm being installed onto the circular track through a slider, being extended upwardly from circular body, and being configured to perform a specific task;

a plurality of monitoring modules being equidistantly spaced apart and mounted on the circular body; and

a control system being configured for controlling the roller legs to drive the monitor modules that inspects the pole surface of the high mast lamp post;

wherein the first leg is composed of two pivotally connected leg portions, an end of the first leg is connected to the outer rim of the circular body, and another end of the first leg is linked to a single-wheel roller, and the first leg has a hydraulic cylinder rod connected between two distal ends of the leg portions; wherein the control system controls the hydraulic cylinder rod and drives the single-wheel roller of the first leg; and

wherein the second leg is composed of two pivotally connected leg portion, an end of the second leg is connected to the outer rim of the circular body, and another end of the second leg is linked to a double-wheel roller, and the second leg has a hydraulic cylinder rod connected between two distal ends of the leg portions; wherein the control system controls the hydraulic cylinder rod and drives the double-wheel roller of the second leg.