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What is claimed is:

1. A varnish coating device, comprising:

a coating die for applying a varnish to a wire;

5 a varnish bath for supplying the varnish to the coating die by a self weight of the varnish; and

a varnish feeding part for supplying the varnish to the varnish bath.

2. The varnish coating device, according to claim 1, wherein the varnish bath is configured to flow the varnish toward the coating die without stagnation.

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3. The varnish coating device, according to claim 1, wherein the varnish bath is connected to the coating die to have an L-shape.

4. The varnish coating device, according to claim 1, wherein the coating die is provided with a hole for inserting the wire, and a direction of the hole is aligned with a direction of passing the wire.

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5. The varnish coating device, according to claim 1, wherein the varnish bath is connected to the coating die directly or via a tube.

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6. The varnish coating device, according to claim 5, wherein the tube is connected to the coating die with a curvature or a right angle.

7. The varnish coating device, according to claim 6, wherein the tube comprises a material has an elasticity and an insolubility with a solvent contained in the varnish.

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8. The varnish coating device, according to claim 1, further comprising:

a sensor for detecting a quantity of the varnish supplied to the varnish bath; and
a control unit for controlling the quantity of the varnish supplied to the varnish bath
based on a detection result of the sensor.

9. A method for coating a varnish, comprising:

- 5 a first step of supplying a varnish from a varnish feeding part to a varnish bath;
a second step of supplying the varnish in the varnish bath to a coating die by a self
weight of the varnish;
a third step of passing the varnish and a wire through the coating die to form a
varnish layer of the varnish with a predetermined thickness on a surface of the wire; and
10 a fourth step of baking the varnish layer to form a coating film.

10. The method for coating a varnish, according to claim 9, wherein the second step
comprises flowing the varnish toward the coating die without stagnation.

15 11. The method for coating a varnish, according to claim 9, wherein the first step
comprises supplying the varnish to keep the quantity of the varnish in the varnish bath to be
constant.

12. The method for coating a varnish, according to claim 9, wherein the third step
20 and the fourth step are repeated until the coating film on the surface of the wire has a desired
thickness.

13. The method for coating a varnish, according to claim 9, wherein the varnish
comprises one-pack type varnish.

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14. The method for coating a varnish, according to claim 9, wherein the varnish
comprises plural-pack type varnish.