

5 **APPARATUS AND METHOD FOR AUTOMATICALLY COATING HUMAN** **BODY**

Technical field

This invention generally relates to the system that can automatically coat the predetermined liquid on the surface of human body or parts of human body, especially
10 apparatus and method for automatically coating human body.

Background technology

The application of coating liquid on the surface of human body or parts of human body can be traced back to ancient times, and though that has been available for a long time, liquid has been almost applied on the human body manually. Manual
15 coating may result in many kinds of defects. First of all, it's difficult to cover the human body with liquid uniformly via manual coating, and the effect still remains unchanged even with the development of small-size spray bottles. Second, assistance from other people may be necessary in order to coat liquid on certain parts of human body properly.

20 At present, there are many forms of skin whitening freckle removing products available on the market: including emulsion, cream and spray. These products are combination of skin colorant featured with chemical activity with following substances: moisturizers, preservatives, antibiotic substances, thickeners, solvents, emulsifiers, perfume, surfactants, stabilizer, sunscreen, pH modifier, anti-blocking
25 agent, chromogenic reaction substance that can approve the change of components and others.

5 People who use these products may encounter with irritating problems related to current methods of how to apply the skin lightening/ brightening components on the skin. These problems are as below:

1. Failure to achieve uniform coating manually and waste of time.

2. Stripes or spots may appear on the skin after certain time due to lack of proper
10 drying upon coating, which will result in uneven appearance or visible/dark stripes or spots.

3. More intense reactions of some parts of human body occurred upon being coated preparation manually. This kind of difference can enhance the absorption capacity of some skin tissues and preference of some tissues for reserving more
15 preparations. As a result, some tissues can absorb more preparation (such as: wrinkles of compact tissues of elbows, knees and palms) when coating the skin lightening products, which makes it impossible to coat the entire skin uniformly.

4. Components (such as thickeners and polymers) designed for manual application contained in most skin products will undercut the product effects.

20 5. It's difficult for anyone to coat every part of their body by themselves.

6. Manual coating will influence the coating effects and is susceptible to environment.

Despite of the above-mentioned problems, skin whitening/brightening products are becoming a trend. It's evident that one kind of excellent application apparatus shall
25 be developed to solve the foregoing problems.

Such excellent application apparatus may also cater for the needs of other

5 applications, including but not limited to: skin whitening agents, skin brightening
agents, anti-aging agents, nutrients or vitamins, acupuncture treatment, insect
repellants, toners, skin bleaching agents, sunscreen cream, antimicrobial combination,
moisturizers, exfoliators, sunburn promoters, massage assistant agent, muscle-relaxing
agent, skin treatment agent, agents treating sunburn, stain removers, sunscreen
10 formula, sunscreen lotion, cosmetics, wrinkle removers.

In terms of coating these products on the skin, users will suffer certain and
annoying troubles. Skin whitening/brightening application can serve as an excellent
example when suffering these kinds of troubles via manual coating. Skin
whitening/brightening application is featured with the highest-level of coating
15 uniformity, which is one of key elements of ensuring the uniform appearance.

Apparatus and method for automatically coating human body is wanted for
solving the existing problems in the current technologies and reach the higher
uniformity.

Contents of the invention

20 This invention is developed as apparatus and method for automatically coating
human body, which can solve the existing problems in the current technologies, coat
all targeting parts of human body in a uniform and automatic manner, reduce the
waste of products generated from manual coating, thus featured with excellent coating
effect, healthy and eco-friendly manner and energy-saving.

25 As apparatus and method for automatically coating human body, this invention is
featured with: Including

5 A coating chamber for receiving and covering the entire human body;

 A preparation container for containing a predetermined liquid preparation to be coated on the skin of the human body;

 At least one nozzle assembly, which is arranged in the coating chamber, and which is used for receiving the predetermined coating liquid from the preparation
10 container and for spraying the predetermined coating liquid onto the skin of the human body within the coating chamber.

 Optimized, the above-mentioned apparatus for automatically coating human body consists of shifting units /rotating units of nozzle assembly, with the nozzle assembly moving in a continuous manner cross a flat surface which is horizontal or
15 vertical to the human body to be coated, thus ensuring the uniform coating of the entire human body.

 Optimized, the above-mentioned apparatus for automatically coating human body consists of 2 or more nozzle assemblies, which are aligned vertically, horizontally or radially.

20 Optimized, the above-mentioned nozzle assembly consists of atomizing nozzle, multi-pipe joint, check valve and solenoid valve, with the first end of multi-pipe joint connecting with atomizing nozzle, the second end of multi-pipe joint connecting with one end of check valve, the other end of check valve connecting with the preparation container, the foregoing preparation container connecting with the check valve, and
25 the third end of the multi-pipe joint connecting with the pipe of solenoid valve.

 Optimized, the other end of the foregoing pipe connected to the solenoid valve is

5 connected to the preparation component balancing device.

Optimized, the above-mentioned apparatus for automatically coating human body is equipped with switches of nozzle assembly, which can be used to control the work of each nozzle assembly respectively.

Optimized, the above-mentioned apparatus for automatically coating human
10 body is also equipped with one recycle unit which can achieve the air independent recycling from liquid out of the atomizing nozzle and surrounding the entire body to be coated, thus collecting the residual atomizing preparations sprayed by the atomizing spray but not be absorbed by skin.

Optimized, the foregoing recycle unit refers to the exhaust fan.

15 Optimized, it includes the collection unit within the coating chamber for collecting the atomizing preparations sprayed by the atomizing nozzle but not be absorbed by skin.

Optimized, the above-mentioned collection unit refers to the filter arranged alongside of exhaust fan.

20 Optimized, the above-mentioned coating chamber consists of top plate, bottom plate, side plate, opening, front column and rear column, with the mentioned opening used for access of the subject to be coated, and the mentioned nozzle assemblies arranged on the front column.

Optimized, there is another unit for disposing the collected atomizing spray,
25 which can dispose the spray collected by the mentioned filter.

Optimized, the above-mentioned nozzle assemblies are equipped with electrical

5 heaters, which can warm up the predetermined coating liquid and then coat it on the human body.

The method of coating human body by applying the foregoing apparatus for automatically coating human body includes following steps:

- (1) Provide the predetermined coating combinations to be coated on the skin;
- 10 (2) Dilute and warm up the foregoing coating combinations;
- (3) Atomize the skin whitening/brightening combinations at the preset rate;
- (4) Apply the foregoing atomized combinations on at least parts of human body to be coated;
- (5) Collect the atomizing spray fails to coat on human body; and
- 15 (6) Capture the partial atomizing spray not attached on the human body to be coated.

Optimized, the foregoing coating combinations are predetermined anti-aging agents.

Optimized, the step of atomizing the coating combinations involves of the
20 application of at least one HVLP nozzle and pore for generating atomizing spray.

Optimized, the step of atomizing the coating combination further involves of the application of multiple HVLP nozzles and pores for generating atomizing spray.

Optimized, the foregoing coating combinations are predetermined skin brightening agents.

25 Optimized, the predetermined skin coating combinations include the balancing of skin whitening, skin brightening, sunscreen and combination containing water.

5 Optimized, it can accelerate the predetermined coating combinations to pass through multiple small-size pores.

The apparatus and method for automatically coating human body generated from this invention are featured with following advantages:

1. Apparatus for automatically coating human body disclosed by this invention is
10 capable of uniform coating, may easily coat the entire body, so as to reduce the use of unnecessary components such as a thickener and polymer, and remain unaffected by the environment.

2. Shifting /rotating units of nozzle assembly can ensure that the entire body will be coated with the predetermined liquid uniformly.

15 3. The above-mentioned apparatus for automatically coating human body consists of 2 or more nozzle assemblies, which are aligned vertically, horizontally or radially. As a result, more parts of human body will be coated, which can be achieved by moving along the orbit or changing one or more nozzles rapidly via changing the angle of nozzle assemblies.

20 4. The foregoing solenoid valve can control the flow rate to satisfy the demands of users with satisfying coating concentration and speed.

5 The other end of the foregoing pipe connected to the solenoid valve is connected to the preparation component balancing device. This device can mix water, alcohol and many other substances at the multi-pipe joints, and then coat these
25 mixtures with atomizing nozzle on the skin, with the preparations diluted and coating concentration adjusted for meeting the satisfying coating thickness.

5 6. The above-mentioned apparatus for automatically coating human body is equipped with switches of nozzle assembly, which can be used to control the work of each nozzle assembly respectively. Meanwhile, some nozzle assemblies work and some are sitting idle.

7. The forgoing apparatus for automatically coating human body is equipped
10 with exhaust fan (recycling unit) and filter, which can recycle the spray failing to coat on the skin, thus saving energy and protecting environment.

8. The atomizing nozzles are arranged with electric heaters alongside, which can warm up the predetermined coating liquid and then coat it on the body, thus improving the comfort.

15 9. Atomizing spray generated by nozzles and pores can coat coating combination on the kin in a more uniform manner.

Description of attached figure

This invention can be better understood by referring to the following attached figures and examples.

20 Figure 1 is the flow chart of how this invention coats the predetermined liquid on the skin.

Figure 2 is the diagram of the simplest apparatus for automatically coating human body.

Figure 3 is the diagram of advanced apparatus for automatically coating human
25 body with the sealing unit.

Figure 4 is the diagram of advanced apparatus for automatically coating human

5 body with exhaust fan according to this invention.

Figure 5 is the diagram of advanced apparatus for automatically coating human body with filter according to this invention.

Figure 6 is the diagram of apparatus for automatically coating human body with two atomizing nozzles according to this invention.

10 Figure 7 is the diagram of advanced apparatus for automatically coating human body with two atomizing nozzles, among which one nozzle can coat the skin selectively according to this invention.

Figure 8 is the diagram of apparatus side view for automatically coating human body according to this invention.

15 Figure 9 is the top view of apparatus for automatically coating human body mentioned in Figure 8.

Figure 10 is the diagram of atomizing tower of the mentioned apparatus for automatically coating human body.

Figure 11 is the enlarged view of nozzle assembly used in atomizing tower of the
20 mentioned apparatus for automatically coating human body mentioned in Figure 10.

As shown from Figure 2 to Figure 11, the apparatus for automatically coating human body disclosed by this invention mainly consists of following parts:

11.Atomizing nozzle 12.Atomizing spay 13.Target to be coated 14.Front column
15.Rear column 16.Bottom plate 17.Top plate 18.Side plate 19.Exhaust fan 20.Filter
25 25.Apparatus for automatically coating human body 26.Coating chamber 27.Opening
28.Movable parts 29.Connecting rod 30.Preparation container 31.Check valve

5 32.Multi-pipe joint 33.Solenoid valve

Specific implementation method

In order to further clarify the purpose, technical schemes and advantages of this invention, following attached drawings and examples are offered to provide a more detailed description of technical schemes of this invention. It shall be understood that
10 the specific examples specified in this paper can only be used for understanding the principles of this invention, which is not used for defining this invention.

This invention consists of apparatus and method for automatically coating human body, which also consists of method and apparats for coating the entire body or part of human body in a uniform and rapid manner. There is a unit built-in the system, which
15 can atomize the chemical combinations and coat it on the entire body or part of human body uniformly. When applying this apparatus and method, no individual is needed for accepting respective processing, and neither other manual method will be applied; furthermore, a container system is available for depressing and collecting residuals generated from the application.

20 This inventions involve in apparatus for automatically coating human body, comprising a coating chamber 26 for receiving and covering the entire human body; preparation container 30 for containing a predetermined liquid preparation to be coated on the skin of the human body; At least one nozzle assembly, which is arranged in the coating chamber, and which is used for receiving the predetermined
25 coating liquid from the preparation container 30 and for spraying the predetermined coating liquid onto the skin of the human body within the coating chamber 26.

5 Optimized, the above-mentioned apparatus for automatically coating human body consists of shifting units /rotating units of nozzle assembly, with the nozzle assembly moving in a continuous manner cross a flat surface which is horizontal or vertical to the human body to be coated, thus ensuring the uniform coating of the entire human body.

10 Optimized, the above-mentioned apparatus for automatically coating human body consists of 2 or more nozzle assemblies, which are aligned vertically, horizontally or radially. As a result, more parts of human body will be coated, which can be achieved by moving along the orbit or changing one or more nozzles rapidly via changing the angle of nozzle assemblies.

15 Optimized, the above-mentioned nozzle assembly consists of atomizing nozzle 11, multi-pipe joint 32, check valve 31 and solenoid valve 33, with the first end of multi-pipe joint 32 connecting with atomizing nozzle 11, the second end of multi-pipe joint 32 connecting with one end of check valve 31, the other end of check valve 31 connecting with the preparation container 30, the foregoing preparation container 30
20 connecting with the check valve 31, and the third end of the multi-pipe joint 32 connecting with the pipe of snoid vaolelve 33. Solenoid valve 33 can be used to control the flow rate and flow.

 Optimized, the other end of the foregoing pipe connected to the solenoid valve 33 is connected to the preparation component balancing device. This device can mix
25 water, alcohol and many other substances at the multi-pipe joints, and then coat these mixtures with atomizing nozzle on the skin, with the preparations diluted and coating

5 concentration adjusted for meeting the satisfying coating thickness.

Optimized, the above-mentioned apparatus for automatically coating human body is equipped with switches of nozzle assembly, which can be used to control the work of each nozzle assembly respectively. Meanwhile, some nozzle assemblies work and some are sitting idle.

10 Optimized, the above-mentioned apparatus for automatically coating human body is also equipped with one recycle unit which can achieve the air independent recycling from liquid out of the atomizing nozzle and surrounding the entire body to be coated, thus collecting the residual atomizing preparations sprayed by the atomizing spray but not be absorbed by skin. It also includes the collection unit within
15 the coating chamber for collecting the atomizing preparations sprayed by the atomizing nozzle but not be absorbed by skin. The mentioned recycle unit is the exhaust fan 19. The above-mentioned collection unit refers to the filter 20 arranged alongside of exhaust fan. It can recycle the atomizing spray failing to be coated on the skin, thus saving energy and protecting environment.

20 Optimized, there is another unit for disposing the collected atomizing spray, which can dispose the spray collected by the mentioned filter 20.

Optimized, the foregoing nozzle assemblies are arranged with electric heaters alongside, which can warm up the predetermined coating liquid and then coat it on the body, thus improving the comfort.

25 Optimized, the above-mentioned coating chamber consists of top plate 17, bottom plate 16, side plate 18, opening 27, front column 14 and rear column 15, with

5 the mentioned opening used for access of the subject to be coated, and the mentioned
nozzle assemblies arranged on the front column. As shown in Figure 5, atomizing
spray 12 is the atomizing liquid, and the target to be coated 13 refers to the human to
be coated as specified in this invention. Human and skin to be coated as specified in
this invention all refer to the target to be coated 13, and other animals or subjects can
10 also be deemed as the target to be coated.

The method of coating human body by applying the foregoing apparatus for
automatically coating human body includes following steps:

- (1) Provide the predetermined coating combinations to be coated on the skin;
- (2) Dilute and warm up the foregoing coating combinations;
- 15 (3) Atomize the skin whitening/brightening combinations at the preset rate;
- (4) Apply the foregoing atomized combinations on at least parts of human body
to be coated;
- (5) Collect the atomizing spray failing to coat on the human body; and
- (6) Capture the partial atomizing spray not attached on the human body to be
20 coated. The mentioned coating combination refer to the predetermined anti-aging
agents, which will replace the skin whitening/brightening agents.

Optimized, the step of atomizing the coating combinations involves of the
application of HVLP nozzle and pore for generating atomizing spray. The step of
atomizing the coating combination further involves of the application of multiple
25 HVLP nozzles and pores for generating atomizing spray. As a result, the coating
combination can be coated on the skin more uniformly.

5 Optimized, the foregoing coating combinations are predetermined skin
brightening agents.

Optimized, the predetermined skin coating combinations include the balancing of
skin whitening, skin brightening, sunscreen and combination containing water.

Optimized, it can accelerate the predetermined coating combinations to pass
10 through multiple small-size pores.

In this invention, a safe cavity consisting of side plates, top plate and bottom
plate is applied for containing the spray. There are several important reasons for
containing the spray. These reasons shall include but not limited to: reduce waste;
avoid stain the surroundings and projects by mistake; assist to capture and recover the
15 process; control the air flow in a better way; control the temperature and humidity in a
better way; this kind of containing can prevent the pollution of this atomizing liquid to
be coated within the closed area.

How to control the air flow and spraying flow plays an important role in the
quality of skin coating. There is an exhaust fan 19 as shown in Figure 4, which is
20 featured with several remarkable advantages. These advantages shall include but not
limited to: control the air flow in a better way; the human body located in the coating
chamber can breathe with less time or breathe via filter or airline, thus accelerating the
drying of atomizing liquid on the skin; better atomizing liquid. The exhaust fan can be
used to remove the residual coating combinations in the coating area in a speed-up
25 rate.

Modified revisions of apparatus described in this invention can also be used in an

5 opening environment, such as at the beach or park. Coat the target rapidly. There may be a system for walking through the coat system. Atomizing spray can be achieved by setting multiple nozzles in a row.

Apparatus for automatically coating human body used in the examples of this invention is shown in Figure 8, Figure 9, Figure 10 and Figure 11. This apparatus for
10 automatically coating human body 25 consists of an integral structure, including the coating chamber 26 for receiving the human, which is used for receiving the predetermined coating liquid and for spraying the predetermined coating liquid onto the skin of the human body within the coating chamber 26 via predetermined substance and application.

15 The coating chamber 26 consists of opening 27 of the coating chamber, with entrance and exit for the opening 27. There are several atomizing nozzles 11 arranged in the coating chamber 26. As shown in Figure 8, the mentioned atomizing nozzles 11 are separated vertically. Technical personnel engaged in this field shall believe that the key of this invention neither depends on the number of nozzles nor whether the
20 atomizing nozzles can spray the atomizing liquid, and other layout pattern of atomizing nozzles is also applicable to this invention.

The optimized atomizing nozzles can carry out the pivotal movement via the predetermined arc parts and movable parts 28 under the function of connecting rod 29. As shown in Figure 9, the predetermined coating liquid will be sprayed from the
25 atomizing nozzles 11 in such form that can ensure that the connecting rod 29 and movable parts 28 in the coating chamber 26 are connected to the mentioned pivotal

5 structure for forcing the atomizing nozzles 11 to move horizontally or vertically.

As shown in Figure 10 and Figure 11, preparations within the coating chamber to be coated are contained in the preparation container 30 in the form of liquid, with liquid and air channels available via installing multi-pipe joints 32. Once the solenoid valve 33 is switched on, the air will push the liquid to flow from the check valve 31 to
10 the atomizing nozzles 11 via solenoid valve 33. In the ideal case, preparation from preparation container 30 will be sprayed from nozzle 11 to be received completely by the human body located in the coating chamber 26. However, in fact, it is impossible to achieve 100% coating effect. Extra liquid sprayed from the atomizing nozzles will be discharged by the exhaust fan 19 working along the horizontal direction of the
15 atomizing nozzles 11, and then collected by the filter 20 of exhaust fan.

As shown in Figure 10 and Figure 11, every nozzle assembly consists of multi-pipe joint 32, which receive liquid from the preparation container 30 under the help of air provided by solenoid valve 33. The check valve 31 can prevent the counterflow of liquid via multi-pipe joint 32. There are several nozzles 11 set on the
20 front column 14.

Deliverables based on this invention are featured with several main advantages: uniform applications can minimum or remove stripes. Access to the coating combinations without the assistance of hands. The whole surface of skin are accessible to such combinations uniformly, thus significantly improving the
25 uniformity when being compared with manual coating. The best formula for atomizing is very simple, and free from components being added to suppress the

5 effect of substances. The working duration of such applications can up as short as
several seconds, which means that the coating can completely dry within several
minutes. Closed system can completely reduce the necessary influence from the
surroundings. Multiple applications can be started at the same time to control the
quantity imposed on per unit area in a better manner, and additional substance can be
10 applied in independent application.

The foregoing implementation method can be deemed as the further detailed
introduction to the purpose, technical schemes and beneficial effects of this invention.
There are also many other implementation methods, and all technical schemes derived
from same change or equivalent transform shall be covered in the protection range of
15 this invention.

1. As apparatus and method for automatically coating human body, this invention is featured with: Including

A coating chamber for receiving and covering the entire human body;

A preparation container for containing a predetermined liquid preparation to be
10 coated on the skin of the human body;

At least one nozzle assembly, which is arranged in the coating chamber, and which is used for receiving the predetermined coating liquid from the preparation container and for spraying the predetermined coating liquid onto the skin of the human body within the coating chamber.

15 2. The apparatus for automatically coating human body as described in Claim of Right 1 is featured with: the above-mentioned apparatus for automatically coating human body consists of shifting units /rotating units of nozzle assembly, with the nozzle assembly moving in a continuous manner cross a flat surface which is horizontal or vertical to the human body to be coated, thus ensuring the uniform
20 coating of the entire human body.

3. The apparatus for automatically coating human body as described in Claim of Right 1 is featured with: the above-mentioned apparatus for automatically coating human body consists of more than 2 nozzle assemblies, which are aligned vertically, horizontally or radially.

25 4. The apparatuses for automatically coating human body as described in Claim of Right 1-3 are featured with: the above-mentioned nozzle assembly consists of

5 atomizing nozzle, multi-pipe joint, check valve and solenoid valve, with the first end
of multi-pipe joint connecting with atomizing nozzle, the second end of multi-pipe
joint connecting with one end of check valve, the other end of check valve connecting
with the preparation container, the foregoing preparation container connecting with
the check valve, and the third end of the multi-pipe joint connecting with the pipe of
10 solenoid valve.

5. The apparatus for automatically coating human body as described in Claim of
Right 4 is featured with: the other end of the foregoing pipe connected to the solenoid
valve is connected to the preparation component balancing device.

6. The apparatus for automatically coating human body as described in Claim of
15 Right 1 is featured with: the above-mentioned apparatus for automatically coating
human body is equipped with switches of nozzle assembly, which can be used to
control the work of each nozzle assembly respectively.

7. The apparatus for automatically coating human body as described in Claim of
Right 1 is featured with: the above-mentioned apparatus for automatically coating
20 human body is also equipped with one recycle unit which can achieve the air
independent recycling from liquid out of the atomizing nozzle and surrounding the
entire body to be coated, thus collecting the residual atomizing preparations sprayed
by the atomizing spray but not be absorbed by skin.

8. The apparatus for automatically coating human body as described in Claim of
25 Right 7 is featured with: the mentioned recycle unit is the exhaust fan.

9. The apparatus for automatically coating human body as described in Claim of

5 Right 1 is featured with: the above-mentioned apparatus for automatically coating human body consists of the collection unit within the coating chamber for collecting the atomizing preparations sprayed by the atomizing nozzle but not be absorbed by skin.

10 10. The apparatus for automatically coating human body as described in Claim of Right 9 is featured with: the above-mentioned collection unit refers to the filter arranged alongside of exhaust fan.

11. The apparatus for automatically coating human body as described in Claim of Right 10 is featured with: the mentioned apparatus for automatically coating human body is also equipped with one unit for disposing the collected atomizing spray, which
15 can dispose the atomizing spray collected by the mentioned filter.

12. The apparatus for automatically coating human body as described in Claim of Right 1 is featured with: the above-mentioned coating chamber consists of top plate, bottom plate, side plate, opening, front column and rear column, with the mentioned opening used for access of the subject to be coated, and the mentioned nozzle
20 assemblies arranged on the front column.

13. The apparatus for automatically coating human body as described in Claim of Right 1 is featured with: the above-mentioned nozzle assemblies are equipped with electrical heaters, which can warm up the predetermined coating liquid and then coat it on the human body.

25 14. The method of coating the skin of human body by applying apparatus for automatically coating human body according to the Article 1-13 of Claim of Right

5 consists of the following steps:

(1) Provide the predetermined coating combinations to be coated on the skin;

(2) Atomize the skin coating combinations at the preset rate;

(3) Apply the foregoing atomized combinations on at least parts of human body
to be coated;

10 (4) Collect the atomizing spray failing to coat on the human body; and

(5) Capture the partial atomizing spray not attached on the human body to be
coated.

15 15. The method of applying apparatus for automatically coating human body
according to the Article 14 of Claim of Right is featured with: there is a step of
diluting and warming up the mentioned coating combinations between Step (1) and
Step (2).

16. The method of applying apparatus for automatically coating human body
according to the Article 14 of Claim of Right is featured with: The foregoing coating
combinations are predetermined anti-aging agents.

20 17. The method of applying apparatus for automatically coating human body
according to the Article 14 of Claim of Right is featured with: among which, the step
(2) of atomizing the coating combination refers to generating spray by applying at
least one HVLP nozzle and at least one pore.

25 18. The method of applying apparatus for automatically coating human body
according to the Article 14 of Claim of Right is featured with: the mentioned coating
combinations refer to the skin brightening combinations.

5 19. The method of applying apparatus for automatically coating human body
according to the Article 14 of Claim of Right is featured with: The predetermined skin
coating combinations include the balancing of skin whitening, skin brightening,
sunscreen and combination containing water.

 20. The method of applying apparatus for automatically coating human body
10 according to the Article 14 of Claim of Right is featured with: in step (2), it can
accelerate the predetermined coating combinations to pass through multiple small-size
pores.