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**An adjustable green landscape wall.**

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The invention discloses an adjustable green landscape wall, relates to the technical field of green landscape walls, and includes a wall, a support platform, and a protective structure arranged on the surface of the support platform. There are several plastic covers on the surface of the table. The plastic covers have a folded structure. The surface of the wall is fixedly connected with a water tank. The inside of the water tank is slidingly connected with a floating frame. The present invention facilitates stormy weather by setting up a protective structure. The flexible shielding and protection of potted plants improves the survival rate of potted plants as much as possible, and can realize the collection of rainwater. The collected rainwater can be reused, effectively improving the utilization rate of rainwater.

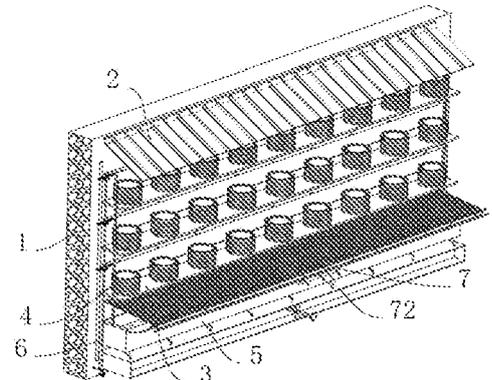


Figure 1

## **An adjustable green landscape wall**

### **technical fields**

The present invention relates to the technical field of green landscape wall, specifically an adjustable green landscape wall.

### **5 background technology**

Green landscape wall is the use of plants will be wall, fence facade landscaping and greening of a landscape design techniques, landscaping, can improve the urban environment landscaping, increase the visual appeal of the landscape, with a certain degree of cooling, insulation, acoustic and other  
10 functions, to improve the microclimate, plants can absorb carbon dioxide, release oxygen, purify the air.

In the use of green landscape wall on potted plants for cultivation process, for some potted plants on the green landscape wall, when encountering stormy weather, potted plants are easy to be eroded by the storm led to blowing down  
15 or even by a large number of rainwater irrigation led to the phenomenon of drowning, which reduces the performance of the use of the green landscape wall.

For this reason, we propose an adjustable green landscape wall.

### **invention content**

20 It is an object of the present invention to provide an adjustable green landscape wall to solve the problems raised in the above background technology.

Plastic cover, said plastic cover is folded structure, the surface of the wall is fixedly connected to the sink, said sink is slidingly connected to the inner  
25 side of the floating frame, said floating frame has a number of through holes uniformly opened on the surface of the floating frame, said floating frame is fixedly connected to the upper surface of the two top rods, said top rods and the sink and the support platform of the inner sliding connection, two said top rods fixedly connected to the three connecting frames, the connecting frames  
30 are made of several The connection frame consists of a number of rings and

round rods, the connection frame and the upper part of the plastic cover is fixedly connected, the surface of the wall is fixedly connected with a draw frame, the outer side of the draw frame is connected with two water tubes, the two water tubes are connected with three fixed tubes, the surface of the fixed tubes is uniformly opened with a number of the first rhombic holes; set up in the outer side of the draw frame adjusting structure, the adjusting structure includes a casing which is slidably connected to the outer surface of the fixed tubes, the adjusting structure includes a sleeve which is slidably connected to the outer surface of the fixed tubes. The adjusting structure is set on the outer side of the draw frame, the adjusting structure includes a casing slidingly connected to the outer surface of the fixed tube, a number of second diamond-shaped holes are opened on the surface of the casing, the size of the second diamond-shaped holes is the same as the size of the first diamond-shaped holes; the replacing structure is set on the surface of the wall, the replacing structure includes a number of first barbed hooks uniformly fixedly connected to the surface of the wall, and a number of first barbed hooks are covered with a screen mesh on the outer surface of the first barbed hooks.

The effect achieved by the above components is as follows: through the installation of the protection structure, it is convenient for the flexible shielding and protection of potted plants in stormy weather, which improves the survival rate of potted plants as much as possible, and it can realize the collection of rainwater, and the collected rainwater can be reused, which effectively improves the utilization rate of rainwater, and improves the usability of the green landscaping wall to a certain extent; through the installation of the adjustment structure, it is convenient for the adjustment of the strength of dripping water on the fixed tube, which facilitates the flexible irrigation of green plants of different growth cycles, and further improves the usability of the green landscaping wall; through the installation of the replacement of the drip water, it is convenient for the flexible irrigation of green plants of different growth cycles. By setting the adjustment structure, it is convenient to adjust the

strength of dripping water on the fixed tube, which facilitates the flexible irrigation of green plants with different growth cycles, and further improves the performance of the green landscape wall, and by setting the replacement structure, it is convenient to flexibly assemble and disassemble the gauze mesh, which avoids the influence of the impurity blockage on the decaying grass, and improves the efficiency of rainwater collection to a certain extent.

Preferably, said protective structure further comprises a collection plate fixedly connected to a side wall of the sink, said collection plate being curved.

The effect achieved by the above components is that the curved structure of the collection plate facilitates the rapid collection of rainwater falling diagonally and dripping on the diversion plate.

Preferably, the inner side of said draw frame is fixedly connected with a connecting block, the inner side of said connecting block is threaded with a screw, the inner side of said connecting block is slidingly connected with a piston, the inner side of said screw and piston are rotationally connected, and a chamfer is provided on the side of said piston away from the screw.

The above components to achieve the effect of: through the twisting screw, can realize the piston drive work, the piston will push the water along the water pipe and the fixed tube on the inside to flow, and ultimately from the first rhombic holes inside the drip, so as to facilitate the potted plants in the drip irrigation work.

Preferably, a number of drip tubes are uniformly connected to the lower surface of said sink, and a number of drip holes are uniformly opened on the upper surface of said draw frame.

The effect achieved by the above components is: after the rain stops, the rain will flow down the drip tube, the rain inside the drip tube will flow into the position between the pumping frame and the piston, the excess rain will flow down the outside of the pumping frame, when the rain inside the sink is finished, the floating frame will not be subjected to the action of the buoyant force of the rain, the floating frame will be subjected to the action of its own

gravity, as well as the gravity of the top bar and the connecting frame to fall.

Preferably, said adjusting structure further comprises a support block fixedly connected to the side wall of the wall, said support block having a rotating shaft rotationally connected to the inside of said support block, said rotating shaft having three gears fixedly connected to the side wall of said rotating shaft, said casing having a rack fixedly connected to the side wall of said casing, said rack having a tooth surface meshing with a tooth surface of the gear.

The above components to achieve the effect of: drive the rotary shaft in the internal rotation of the support block, at this time can be realized on the three gears at the same time drive rotary work, gears will drive the rack for movement, can be realized on the outside of the fixed tube casing drive work, the casing on the second folded holes and the fixed tube on the first folded holes will overlap between the formation of an overlap between the rhombic holes, by the overlap rhombus hole size adjustment, can be realized on the drip irrigation By adjusting the size of the overlapping diamond-shaped holes, it can realize the adjustment of drip irrigation strength, which is convenient for the irrigation of potted plants with different growth cycles.

Preferably, a rotary block is fixedly mounted at the lower end of said rotary shaft, a sliding pin is slidingly connected to the inside of said rotary block, a block is fixedly connected to the upper end of said sliding pin, and the dimensions of said block and the dimensions of the jack are adapted to each other.

The effect achieved by the above components is: by turning the rotor block, the rotor block will drive the rotor shaft to rotate inside the support block.

Preferably, the surface of said slide pin is covered with a spring, and the two ends of said spring are fixedly connected with the block and the rotary block respectively.

The effect of the above components is that the card block will be inserted into the inner side of the corresponding socket on the support block by the

spring force, which can realize the fixing of the rotor after the drive.

Preferably, a circular block is fixedly connected to the lower end of said slide pin, and a support rod is rotationally connected to the inside of said circular block.

5 The effect achieved by the above components is as follows: when the sliding pin is pumped, and the block on the sliding pin is withdrawn from the inner side of the slot, the support rod on the surface of the round block can be rotated, and the support rod can be pressed against the lower surface of the rotating block, so as to realize the temporary support work of the withdrawn  
10 block.

Preferably, said replacement structure further comprises two limit plates fixedly connected to the surface of the collection plate, two rectangular plates slidably connected to the outer surface of said limit plates, a circular rod fixedly connected to the side wall of said rectangular plate, a plurality of second  
15 barbed hooks fixedly connected to the side wall of said circular rod, the other end of said gauze netting slidably penetrating the collection plate, the other side of said gauze netting hooked to the outer side of the plurality of second barbed hooks.

The effect of the above components is that after hooking one side of the  
20 net to the surface of the first barbed hook, the other side of the net is hooked to the surface of the second barbed hook through the collection plate to realize the initial fixation of the net.

Preferably, said rectangular plate is internally threaded with a drive rod, and said drive rod is rotationally connected to the interior of the collection  
25 plate.

The effect achieved by the above components is: rotate the driving rod, the driving rod will drive the rectangular plate and the circular rod to move, in which the rectangular plate sliding on the surface of the limit plate plays a role in restricting the direction of movement of the rectangular plate, the rectangular  
30 plate will drive the circular rod to move at the same time, so as to realize the

tightening and fixing of the gauze mesh between the first barbed hook and the second barbed hook.

Compared to the prior art, the beneficial effects of the present invention are.

5 1. The present invention through the setting of protective structure, in the rainy weather, rain will pass through the diversion plate position diversion to the location of the collection plate, the arc structure of the collection plate is convenient to the slanting fall of rain and the diversion plate on the drip sprinkle of rain fast collection work, when the sink memory into a larger amount  
10 of rain, the floating frame will be the buoyant effect of the rain floats up, this time the floating frame will lead to the top rod upward movement, the top bar in the support platform and the sink of the inner Sliding played a role in limiting the direction of movement of the top bar, the top bar will drive the connection frame upward movement, the connection frame will drive the folding structure  
15 of the plastic cover to stretch, which facilitates the shielding work around the potted plants, through the setup of protective structures, to facilitate the flexible shielding of potted plants under stormy weather protection work, as far as possible to improve the survival rate of the potted plants, and can be realized on the collection of rainwater. The collected rainwater can be reused, which  
20 effectively improves the utilization of rainwater, and to a certain extent improves the performance of the green landscape wall.

2. The present invention through the setting of the adjustment structure, through the overlapping rhombic hole size adjustment, can be realized on the drip irrigation strength of the adjustment work, through the setting of the  
25 adjustment structure, it is convenient to the fixed tube on the drip sprinkle liquid strength of the adjustment work, it is convenient to the different growth cycle of the green plants of the flexible irrigation work, and further improve the use of the performance of the green landscaping wall.

3. The present invention through the setting of the replacement structure,  
30 one side of the gauze net hooked on the surface of the first barbed hook, the

other side of the gauze net through the collection plate hooked on the surface of the other second barbed hook, can realize the initial fixation of the gauze net, through the setting of the replacement structure, it is convenient to the gauze net of the flexible assembly and disassembly work, to avoid impurities in the decline of the grass caused by the impact of the clogging to a certain extent, improve the efficiency of the collection of rainwater.

### **The accompanying illustration**

Figure 1 shows a schematic diagram of the overall structure of the present invention; the

10 FIG. 2 shows a schematic diagram of the partial structure of the present invention; the

FIG. 3 shows a schematic diagram of the partial structure of FIG. 2 of the present invention; the

15 FIG. 4 shows a schematic view of the structure at the protective structure in the present invention; the

Figure 5 is the enlarged view at A of Figure 3 in the present invention;

Figure 6 is an enlarged view at B of Figure 3 in the present invention;

Figure 7 shows a schematic view of the structure at the floating frame in the present invention; the

20 FIG. 8 shows a schematic diagram of the partial structure of FIG. 7 of the present invention; the

Figure 9 shows a schematic view of the structure at the draw frame in the present invention; the

25 FIG. 10 shows a schematic diagram of the partial structure of FIG. 9 of the present invention.

In the figure:1, wall;2, diversion plate;3, support table;4, potting;5, protective structure;501, sink;502, draw frame;503, plastic cover;504, top rod;505, floating frame;506, collection plate;507, water pipe;508, drip tube;509, drip hole;510, piston;511, connecting block;512, screw;513, fixed tube;514  
30 First diamond-shaped hole; 515, through hole; 516, connecting frame; 6,

adjusting structure; 601, rotating shaft; 602, casing; 603, support block; 604, socket; 605, rotating block; 606, sliding pin; 607, support rod; 608, spring; 609, card block; 610, gear; 611, rack; 612, round block; 613, second diamond-shaped hole; 7, replacement Structure; 71, Screen; 72, Round rod; 5 73, First barbed hook; 74, Second barbed hook; 75, Rectangular plate; 76, Limit plate; 77, Driving rod.

### **Specific implementations**

The following will be combined with the accompanying drawings in the embodiments of the present invention, the technical solutions in the 10 embodiments of the present invention are clearly and completely described, obviously, the described embodiments are only part of the embodiments of the present invention, not all of the embodiments. Based on the embodiments of the present invention, all other embodiments obtained by the ordinary technical personnel in the field without making creative labor under the 15 premise, are within the scope of protection of the present invention.

A number of plastic cover 503, plastic cover 503 is folded structure, the surface of the wall 1 is fixedly connected to the sink 501, the inner side of the sink 501 is slidingly connected to the floating frame 505, the surface of the floating frame 505 is uniformly opened with a number of holes 515, the upper 20 surface of the floating frame 505 is fixedly connected to the top bar 504, the top bar 504 is slidingly connected to the sink 501 and the inner side of the support platform 3, the two top bars 504 are fixedly connected to the top bar 504, the top bar 504 is slidingly connected to the sink 501 and the inner side of the support platform 3, the two top bars 504 are fixedly connected to each 25 other. Two top bars 504 are fixedly connected to three connection frames 516, connection frames 516 are made of several rings and round rods, connection frames 516 are fixedly connected to the upper part of the plastic cover 503, the surface of the wall 1 is fixedly connected to a draw frame 502, the outer side of the draw frame 502 is connected to two water pipes 507, and between the two 30 water pipes 507, there are three fixing tubes 513, the surface of the fixing

tubes 513 has a number of first diamonds evenly opened. Uniformly open a number of first diamond-shaped holes 514; set in the draw frame 502 outside of the adjustment structure 6, adjustment structure 6 includes sliding connection in the fixed tube 513 outer surface of the casing 602, the surface of the casing 602 is open a number of second diamond-shaped holes 613, the size of the second diamond-shaped holes 613 and the first diamond-shaped holes 514 of the same size; set in the surface of the wall 1 replacement structure 7, replacement structure 7 includes a number of first barbed hooks 73 evenly fixed connected to the surface of the wall 1, a number of first barbed hooks 73 of the outer surface of the set of gauze 71. through the installation of protective structure 5, to facilitate the storm weather on the potted 4 plants flexible shelter protection, as far as possible to improve the survival rate of the potted 4 plants, and can be realized on the collection of rainwater, after the collection of rainwater can be reutilized, effectively improving the utilization rate of rainwater, and effectively improve the The utilization rate of rainwater can be reused, which effectively improves the performance of the green landscape wall to a certain extent, through the setting of the adjustment structure 6, it is convenient to adjust the strength of water dripping on the fixed pipe 513, which facilitates the flexible irrigation of green plants with different growth cycles and further improves the performance of the green landscape wall, and through the setting of the replacement structure 7, it facilitates the flexible assembly and disassembly of the screen 71 to avoid the blockage of weeds caused by impurities, which is a good way to improve the performance of the green landscape wall. Impurities on the decline of grass caused by the impact of blockage, to a certain extent, improve the efficiency of rainwater collection.

The specific settings and functions of its protective structure 5, adjusting structure 6 and replacement structure 7 are specified below.

As shown in FIGS. 1-FIGS. 4 and FIGS. 6-FIGS. 10, the protective structure 5 further includes a collection plate 506 fixedly connected to the side

wall of the flume 501, and the collection plate 506 is of an arc-shaped structure. The curved structure of the collection plate 506 facilitates the rapid collection of rainwater falling on the slant and rainwater dripping on the diversion plate 2. The inner side of the draw frame 502 is fixedly connected to a connecting block 511, the inner side of the connecting block 511 is threaded with a screw 512, the inner side of the connecting block 511 is slidingly connected to a piston 510, the screw 512 and the inner side of the piston 510 are rotationally connected, and the piston 510 is provided with chamfered corners on the side away from the screw 512. By twisting the screw 512, the drive of the piston 510 can be realized, and the piston 510 will push the water to flow along the water pipe 507 and the inner side of the fixed pipe 513, and eventually drip out from the inner side of the first rhombic hole 514, thus facilitating the drip irrigation of plants in the pot plant 4. The lower surface of the sink 501 is uniformly connected with a number of drip tubes 508, and the upper surface of the draw frame 502 is uniformly opened with a number of drip holes 509. after the rain stops, the rain will flow along the drip tubes 508, the rain inside the drip tubes 508 will flow into the position between the draw frame 502 and the piston 510, and the excess rain will flow along the outside of the draw frame 502, and when the rain on the inner side of the sink 501 is finished, the floating frame 505 will no longer be affected by the rainwater buoyancy, so that the plants in the pot 4 can be irrigated. 505 will not be subjected to the action of rainwater buoyancy, the floating frame 505 will be subjected to its own gravity as well as the top rod 504 and the connecting frame 516 gravity fall.

As shown in Figure 1 - Figure 6, the adjustment structure 6 also includes a fixed connection in the wall 1 side wall of the support block 603, support block 603 of the internal rotation is connected to the rotary shaft 601, the rotary shaft 601 of the side wall is fixedly connected to the three gears 610, casing 602 of the side wall is fixedly connected to the rack 611, the rack 611 tooth surface and gear 610 tooth surface engagement. Drive the rotary shaft 601 in the support block 603 internal rotation, at this time can realize the three gears 610

at the same time drive rotary work, gears 610 will drive the rack 611 for movement, can realize the fixed tube 513 outside the casing 602 drive work, casing 602 on the second folding holes and fixed tube 513 on the first folding holes will be overlapped to form an overlap of the rhombic holes, by the overlap of the diamond hole size adjustment. By adjusting the size of the overlapping diamond-shaped holes, it is possible to realize the adjustment of the drip irrigation strength, which facilitates the irrigation of potted plants 4 with different growth cycles. The lower end of the rotor shaft 601 is fixedly mounted on the rotor 605, the rotor 605 is slidingly connected to the sliding pin 606, the upper end of the sliding pin 606 is fixedly connected to the card block 609, the size of the card block 609 and the size of the socket 604 is suitable for the size of the socket 604. When the rotary block 605 is rotated, the rotary block 605 will drive the rotary shaft 601 to rotate inside the support block 603. A spring 608 is attached to the surface of the slide pin 606, and the two ends of the spring 608 are fixedly connected to the card block 609 and the rotary block 605 respectively. The card block 609 will be spring force by the spring 608 inserted into the support block 603 corresponding to the inner side of the jack 604, can be realized on the drive after the rotation of the fixed work of the rotor shaft 601. The lower end of the slide pin 606 is fixedly connected to the circular block 612, and the internal rotation of the circular block 612 is connected to the support rod 607. pumping the slide pin 606, when the card block 609 on the slide pin 606 is withdrawn from the inner side of the slot, the support rod 607 on the surface of the circular block 612 can be rotated and the support rod 607 can be placed on the lower surface of the rotary block 605, so as to realize the temporary support work of the withdrawn card block 609.

As shown in FIGS. 1-FIG. 4, the replacement structure 7 further includes two limit plates 76 fixedly connected to the surface of the collection plate 506, a rectangular plate 75 slidingly connected to the outer surface of the two limit plates 76, a circular rod 72 fixedly connected to the side wall of the rectangular plate 75, a plurality of second barbed hooks 74 fixedly connected to the side

wall of the circular rod 72, the other end of the gauze mesh 71 slidingly running through the collection plate 506, the other side of the gauze mesh 71 The other end of the screen 71 slides through the collection plate 506, and the other side of the screen 71 is hooked to the outside of the second barbed hooks 74. After hooking one side of the screen 71 to the surface of the first barbed hook 73, the other side of the screen 71 is hooked to the surface of the second barbed hooks 74 through the collecting plate 506, so as to realize the preliminary fixing of the screen 71. The rectangular plate 75 is internally threaded with a drive lever 77, which is rotationally connected to the interior of the collection plate 506. Turning the drive lever 77, the drive lever 77 will drive the rectangular plate 75 and the circular rod 72 to move, in which the rectangular plate 75 slides on the surface of the limit plate 76 to play the role of restricting the direction of movement of the rectangular plate 75, and the rectangular plate 75 will drive the circular rod 72 to move at the same time, so as to realize the tightening and fixing of the gauze mesh 71 between the first barbed hook 73 and the second barbed hook 74.

Principle of operation: in rainy weather, rainwater will be diverted to the location of the collection plate 506 through the location of the diversion plate 2, the curved structure of the collection plate 506 facilitates the rapid collection of rainwater on the slanting fall as well as dripping rainwater on the diversion plate 2, when the sink 501 memory more rainwater, the floating frame 505 will be buoyant by rainwater buoyancy to float up, at this time, the floating frame 505 will lead to the top bar 504 upward movement. The top bar 504 slides inside the support table 3 and the sink 501 to limit the movement direction of the top bar 504, at this time the top bar 504 will drive the connecting frame 516 to move upward at the same time, the connecting frame 516 will drive the folding structure of the plastic cover 503 to extend, which facilitates the shielding work around the potted plant 4, and thus realize the protection of the potted plant 4, avoiding the potted plant 4 to be affected by the storm toppling or a large number of potted plants. Storm impact dumping or large amounts of

irrigation led to drowning phenomenon, and set up by the ring and the round rod splicing connection frame 516 and the support platform 3 connected to the plastic cover 503, to facilitate the positioning of the potted plants 4 work, to avoid the accompaniment of the external forces in the phenomenon of dumping, and further improve the stability of the potted plants 4 placed, through the setting of the opening in the floating frame 505 on the hole 515, the water can follow the floating frame 505, and the water can be used as the water, the water can be used as the water, the water can be used as the water, the water can be used as the water. By setting the through hole 515 on the floating frame 505, the water liquid can flow into the sink 501 below the floating frame 505, under the premise of guaranteeing the buoyancy of the floating frame 505 to ensure the sink 501 to receive the area of rainwater, thus ensuring the efficiency of the rainwater collection, rotate the screw 512, will be the piston 510 against the surface of the connecting block 511 position, in the rain stops, the rainwater will flow along the drip tube 508, drip tube 508 inside the rainwater will be the drip tube The rainwater inside 508 will flow into the position between the draw frame 502 and the piston 510, and the excess rainwater will flow out along the outside of the draw frame 502, when the rainwater inside the sink 501 is finished, the floating frame 505 will not be subjected to the action of the buoyant force of the rainwater, the floating frame 505 will be subjected to the action of its own gravity, as well as the top bar 504 and the gravity of the connection frame 516 to fall, and at this time, it is possible to realize the potting of the plants in the 4 potted plants to be exposed, and it is convenient for the plants in the potting 4 to be revealed, and it is possible for the plants in the potted plants in the potted plants in the potted plants in the potted plants to be revealed. It is convenient for the normal photosynthesis of the plants in the potted plant 4, by twisting the screw 512, it can realize the driving work of the piston 510, the piston 510 will push the water to flow along the inner side of the water pipe 507 and the fixed pipe 513, and finally it can be dripped out from the inner side of the first rhombus hole

514, thus it is convenient for the drip irrigation of the plants in the potted plant 4, through the setting of the water stored in the inner side of the pumping frame 502 after rain, it is convenient for the plants in the potted plant 4 in the long term dry weather. By setting the water stored in the inner side of the draw frame 502 after rain, it facilitates the flexible utilization of the stored rainwater in the long-term dry weather, and can drip irrigation in the wall 1 more potted plants 4 on the inner side, thus avoiding the phenomenon of drought death of the potted plants 4 in the wall 1, in the draw frame 502 after the rainwater is exhausted, in the case of long-term drought, the staff can also be to the inner side of the sink 501 to add water to achieve the filling of the inner side of the water in the draw frame 502, by setting the protective structure 5, which facilitates the drip irrigation of plants 4 in the wall 1. Setting protection structure 5, convenient stormy weather on the potted 4 plants flexible shelter protection work, as far as possible to improve the survival rate of the potted 4 plants, and can realize the collection of rainwater, after the collection of rainwater can be reused, effectively improve the utilization rate of rainwater, to a certain extent, improve the performance of the use of the green landscape wall.

Pumping the slide pin 606, when the card block 609 on the slide pin 606 is withdrawn from the inner side of the card slot, the support rod 607 on the surface of the round block 612 can be rotated, and the support rod 607 is placed against the lower surface of the rotary block 605 to realize the temporary support of the withdrawn card block 609, and at this time the rotary block 605 can be rotated, and the rotary block 605 drives the rotary axle 601 to rotate in the inner part of the support block 603, and at this time the simultaneous driving work of three gears 610 is achieved, the gears 610 will drive the rack 611 to move, and the driving work of the casing 602 on the outer side of the fixed tube 513 can be realized. Three gears 610 at the same time to drive the work, gears 610 will drive the rack 611 for movement, can be realized on the outside of the fixed tube 513 casing 602 drive work, casing 602 on the second folded holes and fixed tube 513 on the first folded holes will overlap

between the formation of an overlap of the rhombus hole, through the overlap of the rhombus size of the hole can be realized to the adjustment of the drip irrigation strength, convenient Irrigation of potted plants 4 with different growth cycles, after adjusting the appropriate position of the rotor 601, turn out the support bar 607 located under the rotor 605, at this time, the card block 609 will be subject to the spring 608 elasticity inserted into the inner side of the corresponding socket 604 on the support block 603, which can be realized on the fixed position of the rotor 601 after the drive to achieve the fixed position of the adjusted casing 602 by setting the adjusting structure 6, it is convenient to adjust the drip irrigation strength by adjusting the size of the overlapping diamond-shaped holes, which can be realized by adjusting the drip irrigation strength, and it is convenient to irrigate potted plants with different growth cycles. By setting the adjustment structure 6, it is convenient to adjust the strength of water dripping on the fixed tube 513, which facilitates the flexible irrigation of green plants with different growth cycles and further improves the performance of the green landscape wall.

After hooking one side of the gauze net 71 on the surface of the first barbed hook 73, the other side of the gauze net 71 will be hooked on the surface of the second barbed hook 74 through the collection plate 506, which can realize the initial fixation of the gauze net 71, at this time, rotate the drive lever 77, the drive lever 77 will drive the rectangular plate 75 and the circular rod 72 to move, which the rectangular plate 75 in the surface of the restriction plate 76 sliding played a role in restricting the direction of movement of the rectangular plate 75, the rectangular plate 75 will drive the circular rod 72 to move, so as to realize the tightening and fixing of the gauze net 71 between the first barbed hook 73 and the second barbed hook 74. The rectangular plate 75 slides on the surface of the limit plate 76 to limit the role of the rectangular plate 75 moving direction, the rectangular plate 75 will drive the circular rod 72 to move at the same time, so that the first barbed hook 73 and the second barbed hook 74 between the gauze mesh 71 tightening and fixing work, which

can realize the installation of the gauze mesh 71, the gauze mesh 71 out of the surface of the first barbed hook 73 and the second barbed hook 74, the gauze mesh 71 can be realized by the gauze mesh 71 assembling, can realize the mud above the sink 501. Through the assembly of the screen 71, it can realize  
5 the filtering of impurities such as mud or dead leaves and roots above the water tank 501, avoiding the phenomenon of blockage caused by impurities to the water tank 501, and through the setting of the replacement structure 7, it facilitates the flexible assembling and disassembling of the screen 71, avoiding the effect of blockage caused by impurities to the decaying grass, and to a  
10 certain extent, it improves the efficiency of the collection of rainwater.

It is to be noted that, for the purposes of this paper, relational terms such as first and second are used only to distinguish one entity or operation from another, and do not necessarily require or imply the existence of any such actual relationship or sequence between those entities or operations.  
15 Moreover, the terms "including", "comprising" or any other variant thereof are intended to cover non-exclusive inclusion, so that a process, method, article or apparatus comprising a set of elements includes not only those elements, but also other elements not expressly listed. (b) elements that are not explicitly listed, or elements that are inherent to such process, method, article or  
20 equipment.

Although embodiments of the present invention have been shown and described, it will be appreciated by those of ordinary skill in the art that a variety of changes, modifications, substitutions, and variations may be made to these embodiments without departing from the principles and spirit of the  
25 present invention, and that the scope of the present invention is limited by the appended claims and their equivalents.

## Claims

1. An adjustable green landscape wall, comprising a wall (1), characterized in that: three support tables (3) are fixedly mounted on the surface of said wall (1), a number of potted plants (4) are placed on the surface  
5 of said support table (3), and a diversion plate (2) is fixedly mounted on the side wall of said wall (1), and further comprising.

Protective structure (5) provided on the surface of said support table (3), said protective structure (5) comprising a number of plastic covers (503) fixedly connected to the surface of said support table (3), said plastic cover (503)  
10 being a folded structure, said sink (501) fixedly connected to the surface of said wall (1), said sink (501) being slidably connected to the inner side of said floating frame (505), said floating frame ( The surface of said floating frame (505) is uniformly provided with a number of through holes (515), the upper surface of said floating frame (505) is fixedly connected with two top rods (504),  
15 said top rods (504) are slidingly connected with the inner side of the water tank (501) and the support table (3), three connecting frames (516) are fixedly connected with the two top rods (504), and said connecting frames (516) consist of a number of rings and round rods spliced together, and said connecting frames (516) are made up of several rings and round rods, and  
20 said connecting frame (516) consists of a number of rings and round rods, and said connecting frame (516) is made of a number of circles and round rods, and said connecting frame (516) is made of a number of circles and round rods. Said connecting frame (516) and the upper part of the plastic cover (503) are fixedly connected, the surface of said wall (1) is fixedly connected with a  
25 drawer frame (502), the outer side of said drawer frame (502) is connected with two water pipes (507), and three fixed tubes (513) are connected with two said water pipes (507), and a number of first diamond shaped holes are opened uniformly on the surface of said fixed tubes (513), and a number of first diamond shaped holes are opened uniformly on the surface of the wall (1), and  
30 a number of first diamond shaped holes are opened uniformly on the surface of

the wall (1). a number of first diamond shaped holes (514) on the surface of said fixing tubes (513).

An adjusting structure (6) provided on the outside of said draw frame (502), said adjusting structure (6) comprising a sleeve (602) slidingly  
5 connected to the outer surface of a fixed tube (513), said sleeve (602) being provided with a number of second rhombic holes (613) on the surface of said sleeve (602), said second rhombic holes (613) having dimensions equal to the dimensions of the first rhombic holes (514).

A replacement structure (7) provided on the surface of said wall (1), said  
10 replacement structure (7) comprising a plurality of first barbed hooks (73) uniformly fixedly attached to the surface of the wall (1), the outer surface of the plurality of said first barbed hooks (73) being covered with a screen net (71).

2. An adjustable green landscape wall according to claim 1, characterized  
in that: said protective structure (5) further comprises a collection plate (506)  
15 fixedly connected to the side wall of the sink (501), said collection plate (506) being curved.

3. An adjustable green landscape wall according to claim 1, characterized  
in that: the inner side of said draw frame (502) is fixedly connected with a  
connecting block (511), the inner side of said connecting block (511) is  
20 threaded with a screw (512), the inner side of said connecting block (511) is slidably connected with a piston (510), the inner sides of said screw (512) and piston (510) are rotated. The screw (512) and the piston (510) are internally rotatable and the piston (510) is provided with a chamfer on the side of the piston (510) away from the screw (512).

25 4. An adjustable green landscape wall according to claim 1, characterized  
in that: the lower surface of said sink (501) is uniformly connected with a plurality of drippers (508), and the upper surface of said draw frame (502) is uniformly open with a plurality of drip holes (509).

5. An adjustable green landscape wall according to claim 1, characterized  
30 in that: said adjusting structure (6) further comprises a support block (603)

fixedly connected to a side wall of the wall (1), said support block (603) has a rotating shaft (601) rotationally connected to the interior of said support block (603), said rotating shaft (601) has three gears (610) fixedly connected to a side wall, said casing (602) has a rack (611) fixedly connected to a side wall, 5 said rack (611) has tooth surfaces meshing with tooth surfaces of the gear (610). The side wall of said casing (602) is fixedly connected to a rack (611), the tooth surface of said rack (611) meshing with the tooth surface of the gears (610).

6. An adjustable green landscape wall according to claim 5, characterized 10 in that: said lower end of said swivel (601) is fixedly mounted with a swivel block (605), said swivel block (605) is internally slidably connected with a sliding pin (606), said sliding pin (606) is fixedly connected with a card block (609) at the upper end of said sliding pin (606), and said card block (609) is sized and the sizes of the jack (604) are The dimensions of said block (609) 15 are compatible with the dimensions of the socket (604).

7. An adjustable green landscape wall according to claim 6, characterized in that: said slide pin (606) has a spring (608) over the surface of said slide pin (606), and the two ends of said spring (608) are fixedly connected with a card block (609) and a rotary block (605) respectively.

20 8. An adjustable green landscape wall according to claim 6, characterized in that: a circular block (612) is fixedly connected to the lower end of said slide pin (606), and a support rod (607) is rotationally connected to the interior of said circular block (612).

9. An adjustable green landscape wall according to claim 2, characterized 25 in that: said replacement structure (7) further comprises two limit plates (76) fixedly connected to the surface of the collection plate (506), two rectangular plates (75) slidably connected to the outer surface of said two said limit plates (76), a circular rod (72) fixedly connected to the side wall of said rectangular plate (75), a number of second barbed hooks (74) fixedly connected to the side 30 wall of said circular rod (72), another end of said gauze net (71) slidably

running through the collection plate (506), said gauze net (71) slidingly running through the collection plate (506), and said second barbed hooks (74) fixedly connecting the side wall of the collection plate (506), and said second barbed hooks (74) slidingly running through the collection plate (506), and said gauze net (71) slidingly running through the collection plate (506). The side wall of said circular rod (72) is fixedly connected with a number of second barbed hooks (74), the other end of said gauze net (71) slides through the collection plate (506), the other side of said gauze net (71) is hooked on the outside of the number of second barbed hooks (74).

10        10. An adjustable green landscape wall according to claim 9, characterized in that: said rectangular plate (75) is internally threadedly connected with a driving rod (77), and said driving rod (77) is rotationally connected with the interior of the collection plate (506).

## Ansprüche

1. einstellbare grüne Landschaftswand, die eine Wand (1) umfasst, dadurch gekennzeichnet, dass: drei Stützplattformen (3) fest an der Oberfläche der Wand (1) angebracht sind, eine Anzahl von Topfpflanzen (4) auf der Oberfläche der Stützplattformen (3) platziert sind, eine Ablenkungsplatte (2) fest an der Seitenwand der Wand (1) angebracht ist, und ferner umfassend:

Schutzstruktur (5), die auf der Oberfläche des Auflagetisches (3) vorgesehen ist, wobei die Schutzstruktur (5) eine Anzahl von Kunststoffabdeckungen (503) umfasst, die fest mit der Oberfläche des Auflagetisches (3) verbunden sind, wobei die Kunststoffabdeckung (503) eine gefaltete Struktur ist, wobei das Waschbecken (501) fest mit der Oberfläche der Wand (1) verbunden ist, wobei das Waschbecken (501) verschiebbar mit der Innenseite des Waschbeckens (501) mit einem schwimmenden Rahmen (505) verbunden ist, wobei der schwimmende Rahmen ( The surface of said floating frame (505) is uniformly provided with a number of through holes (515), the upper surface of said floating frame (505) is fixedly connected with two top rods (504), said top rods (504) are slidingly connected with the inner side of the water tank (501) and the support table (3), three connecting frames (516) are fixedly connected with each other between the two said top rods (504), and the connecting frames (516) comprise a number of rings and round rods spliced together, and the connecting frame (516) is composed of a number of rings and round rods, and the connecting frame (516) is made of a number of rings and round rods, the connecting frame (516) is made of a number of circles and round rods, the connecting frame (516) is made of a number of circles and round rods. Der Verbindungsrahmen (516) und die obere Öffnung der Kunststoffabdeckung (503) sind fest verbunden, die Oberfläche der Wand (1) ist fest mit einem Schubladenrahmen (502) verbunden, die Außenseite des Schubladenrahmens (502) ist mit zwei Wasserrohren (507) verbunden, und drei Befestigungsrohre (513) sind mit zwei Wasserrohren (507) verbunden,

und eine Anzahl von ersten rautenförmigen Löchern ist gleichmäßig auf der Oberfläche der Befestigungsrohre (513) geöffnet, und eine Anzahl von ersten rautenförmigen Löchern ist gleichmäßig auf der Oberfläche der Wand (1) geöffnet, und eine Anzahl von ersten rautenförmigen Löchern ist gleichmäßig zwischen der Wand (504) und der Kunststoffabdeckung (504) geöffnet. eine Anzahl von ersten rautenförmigen Löchern (514) auf der Oberfläche der festen Rohre (513);

Einstellstruktur (6), die an der Außenseite der Strecke (502) vorgesehen ist, wobei die Einstellstruktur (6) eine Hülse (602) umfasst, die gleitend mit der Außenfläche eines festen Rohrs (513) verbunden ist, wobei die Hülse (602) mit einer Anzahl von zweiten rhombischen Löchern (613) auf der Oberfläche der Hülse (602) versehen ist, wobei die zweiten rhombischen Löcher (613) Abmessungen aufweisen, die gleich den Abmessungen der ersten rhombischen Löcher (514) sind;

Ersatzstruktur (7), die an der Oberfläche der Wand (1) vorgesehen ist, wobei die Ersatzstruktur (7) eine Vielzahl von ersten Widerhaken (73) umfasst, die gleichmäßig fest an der Oberfläche der Wand (1) angebracht sind, wobei die Außenfläche der Vielzahl der ersten Widerhaken (73) mit einem Schirm (71) bedeckt ist.

2. einstellbare grüne Landschaftswand nach Anspruch 1, dadurch gekennzeichnet, dass: die Schutzstruktur (5) außerdem eine Auffangplatte (506) umfasst, die fest mit der Seitenwand des Waschbeckens (501) verbunden ist, wobei die Auffangplatte (506) gekrümmt ist.

3. einstellbare grüne Landschaftswand nach Anspruch 1, dadurch gekennzeichnet, dass: die Innenseite der Strecke (502) fest mit einem Verbindungsblock (511) verbunden ist, die Innenseite des Verbindungsblocks (511) mit einer Schraube (512) verschraubt ist, die Innenseite des Verbindungsblocks (511) verschiebbar mit einem Kolben (510) verbunden ist, die Innenseiten der Schraube (512) und des Kolbens (510) gedreht werden. Die Schraube (512) und der Kolben (510) sind im Inneren drehbar, und der

Kolben (510) ist auf der von der Schraube (512) abgewandten Seite des Kolbens (510) mit einer Fase versehen.

4. einstellbare grüne Landschaftswand nach Anspruch 1, dadurch gekennzeichnet, dass: eine Anzahl von Tropfrohren (508) gleichmäßig mit der Unterseite der Spüle (501) verbunden ist, und eine Anzahl von Tropföffnungen (509) gleichmäßig auf der Oberseite der Strecke (502) geöffnet ist.

5. einstellbare grüne Landschaftswand nach Anspruch 1, dadurch gekennzeichnet, dass die Einstellstruktur (6) ferner einen Stützblock (603) umfasst, der fest mit einer Seitenwand der Wand (1) verbunden ist, wobei der Stützblock (603) eine drehbare Welle (601) aufweist, die drehbar mit dem Inneren des Stützblocks (603) verbunden ist, wobei die drehbare Welle (601) drei Zahnräder (610) aufweist, die fest mit einer Seitenwand verbunden sind, wobei das Gehäuse (602) eine Zahnstange (611) aufweist, die fest mit einer Seitenwand verbunden ist, wobei die Zahnstange (611) Zahnflächen aufweist, die mit Zahnflächen der Zahnräder (610) in Eingriff stehen. Die Seitenwand des Gehäuses (602) ist fest mit einer Zahnstange (611) verbunden, wobei die Zahnfläche der Zahnstange (611) mit der Zahnfläche der Zahnräder (610) kämmt.

6. einstellbare grüne Landschaftswand nach Anspruch 5, dadurch gekennzeichnet, dass: das untere Ende des Drehgelenks (601) fest mit einem Drehblock (605) montiert ist, der Drehblock (605) innen gleitend mit einem Gleitstift (606) verbunden ist, der Gleitstift (606) fest mit einem Kartenblock (609) am oberen Ende des Gleitstifts (606) verbunden ist, wobei die Abmessungen des Kartenblocks (609) an die Abmessungen der Fassung (604) angepasst sind. die Abmessungen des Blocks (609) und die Abmessungen der Buchse (604) kompatibel sind.

7. einstellbare grüne Landschaftswand nach Anspruch 6, dadurch gekennzeichnet, dass: der Gleitstift (606) eine Feder (608) über der Oberfläche des Gleitstifts (606) aufweist und die beiden Enden der Feder (608) fest mit einem Kartenblock (609) bzw. einem Drehblock (605) verbunden sind.

8. einstellbare grüne Landschaftswand nach Anspruch 6, dadurch gekennzeichnet, dass ein kreisförmiger Block (612) fest mit dem unteren Ende des Gleitstifts (606) verbunden ist und eine Stützstange (607) drehbar mit dem Inneren des kreisförmigen Blocks (612) verbunden ist.

5 9. An adjustable green landscape wall according to claim 2, characterised in that: said replacement structure (7) further comprises two limit plates (76) fixedly connected to the surface of the collection plate (506), two rectangular plates (75) slidingly connected to the outer surface of said two said limit plates (76), a circular rod (72) fixedly connected to the side wall of said rectangular  
10 plate (75), a number of second barbed hooks (74) fixedly connected to the side wall of said circular rod (72), another end of said gauze net (71) slidingly running through the collection plate (506), said gauze net (71) slidingly running through the collection plate (506), and said second barbed hooks (74) fixedly connecting the side wall of the collection plate (506), and said gauze net (71)  
15 slidingly running through the collection plate (506), and said circular rod (72) slidingly running through the collection plate (506), and said circular rod (72) fixedly connecting the side wall of the collection plate (506). Die Seitenwand der kreisförmigen Stange (72) ist fest mit einer Anzahl von zweiten Widerhaken (74) verbunden, das andere Ende des Mullnetzes (71) gleitet  
20 durch die Sammelplatte (506), die andere Seite des Mullnetzes (71) ist an der Außenseite der Anzahl von zweiten Widerhaken (74) eingehakt.

10. einstellbare grüne Landschaftswand nach Anspruch 9, dadurch gekennzeichnet, dass die rechteckige Platte (75) innen mit einer Antriebsstange (77) verschraubt ist, wobei die Antriebsstange (77) drehbar mit  
25 dem Inneren der Sammelplatte (506) verbunden ist.

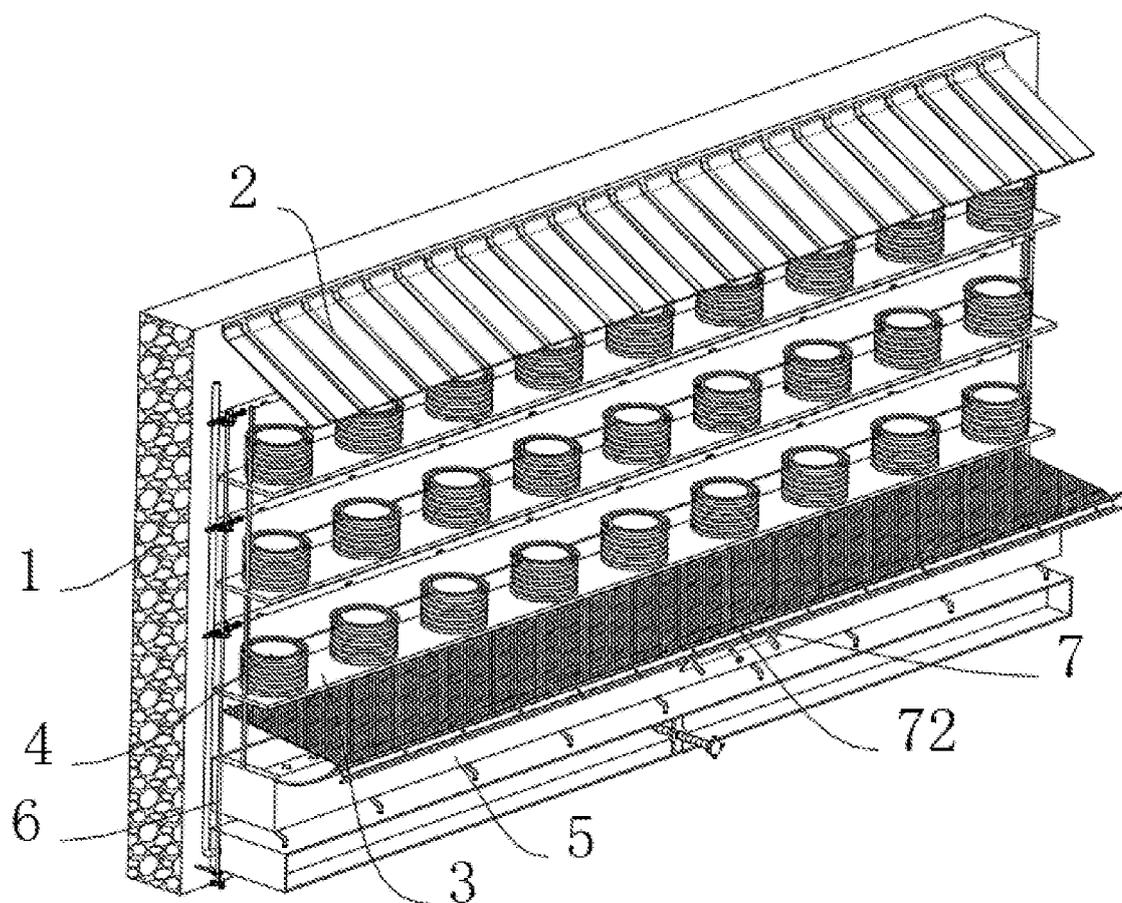


Figure 1





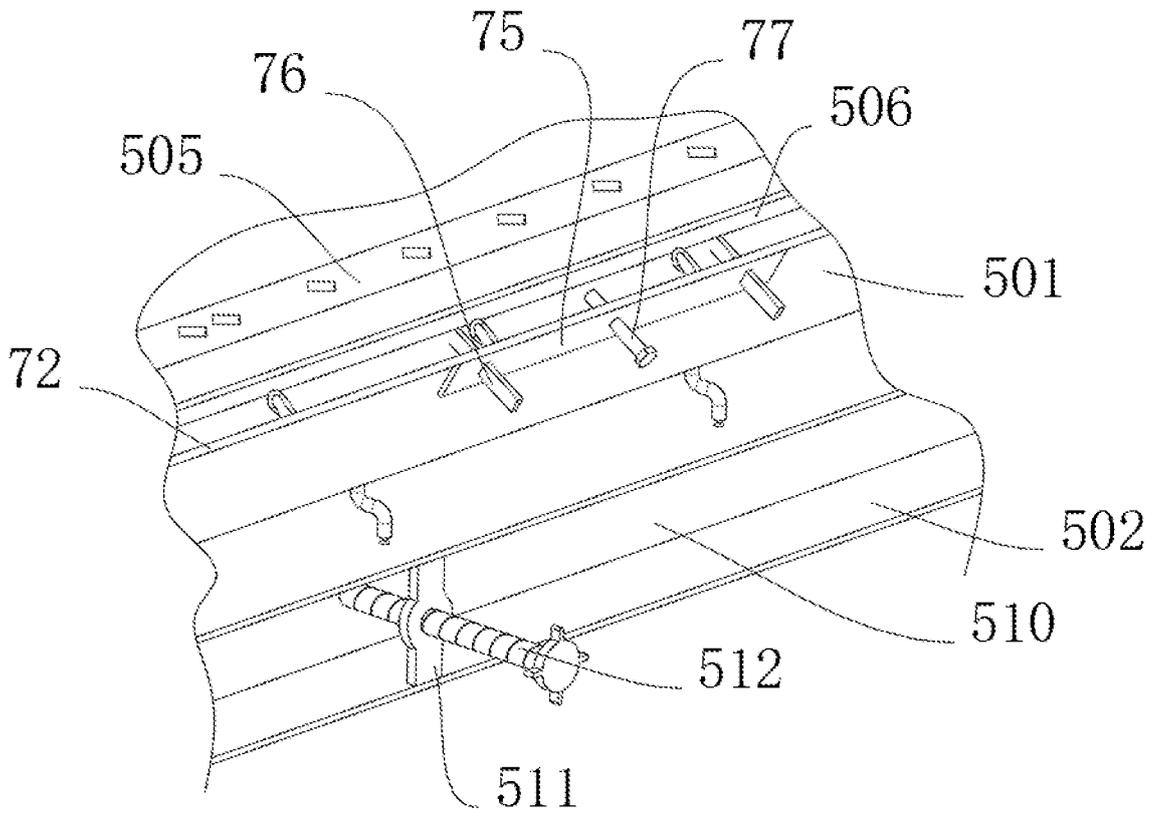


Figure 4

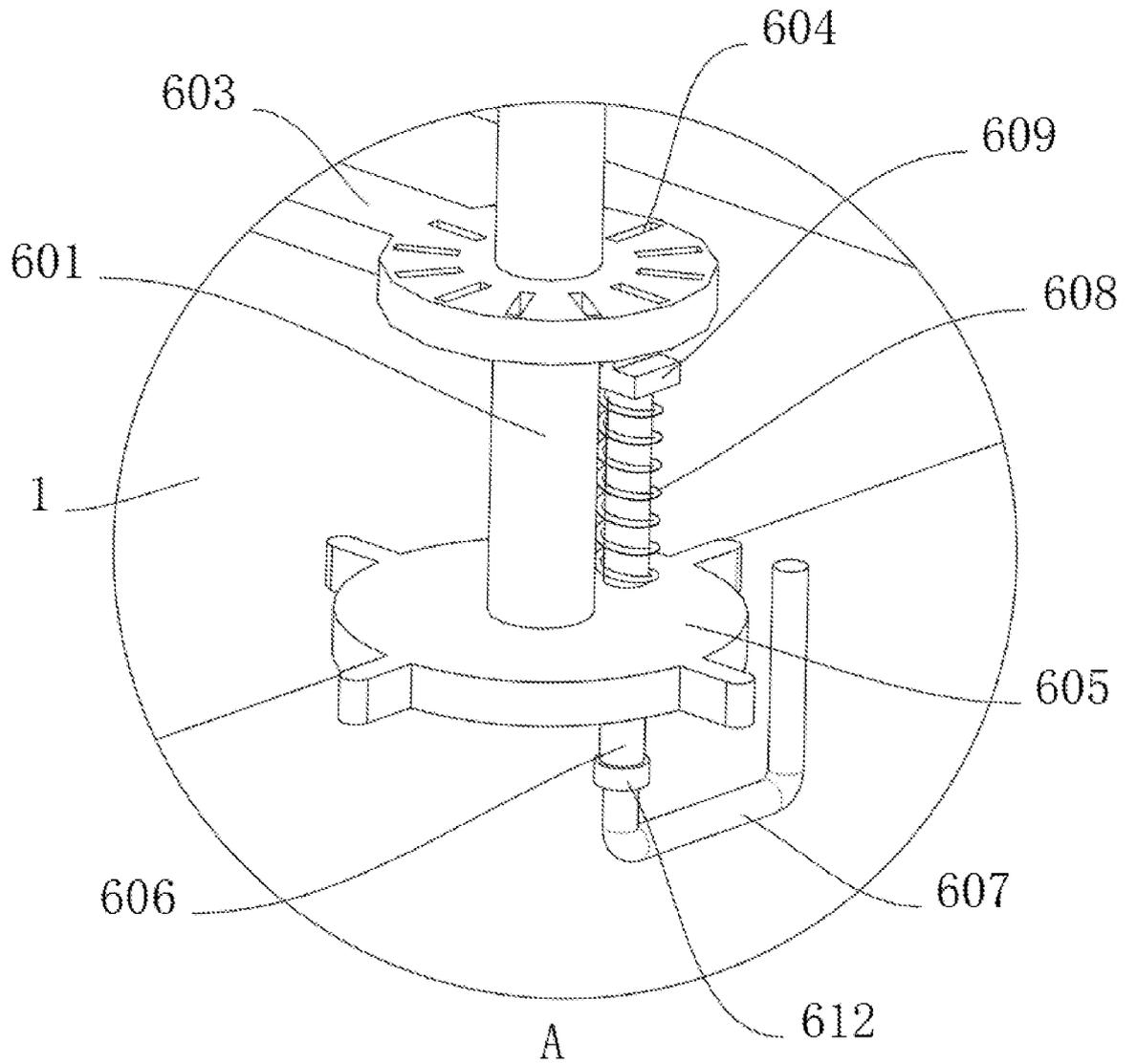


Figure 5

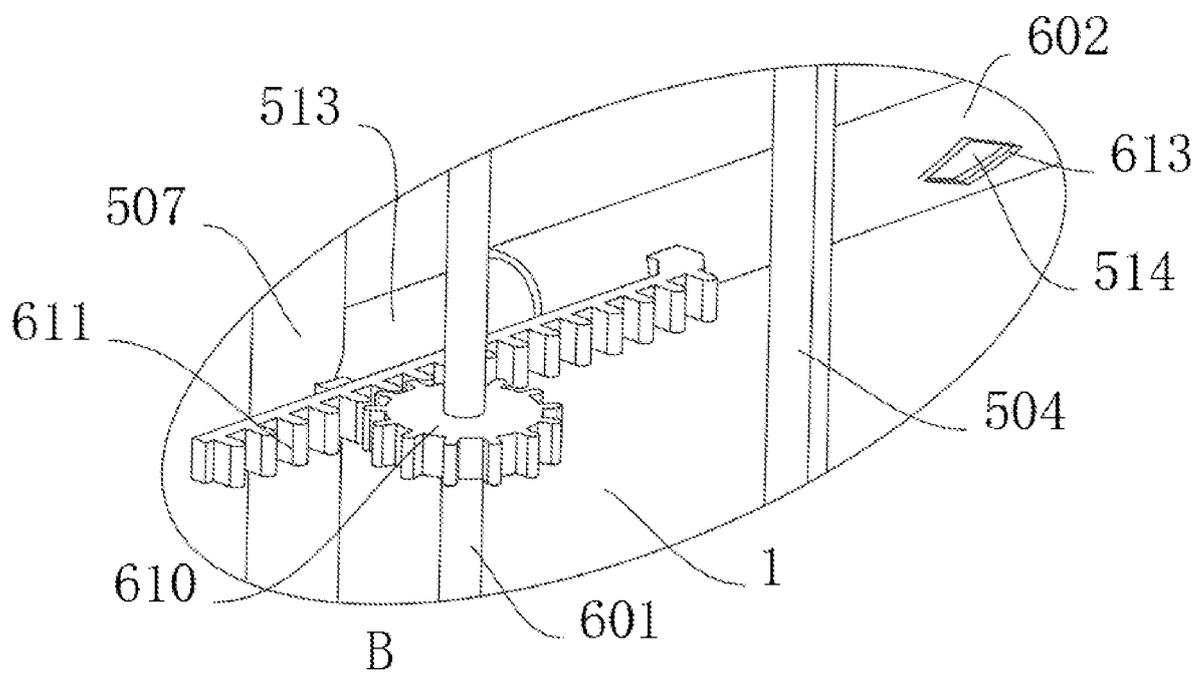


Figure 6

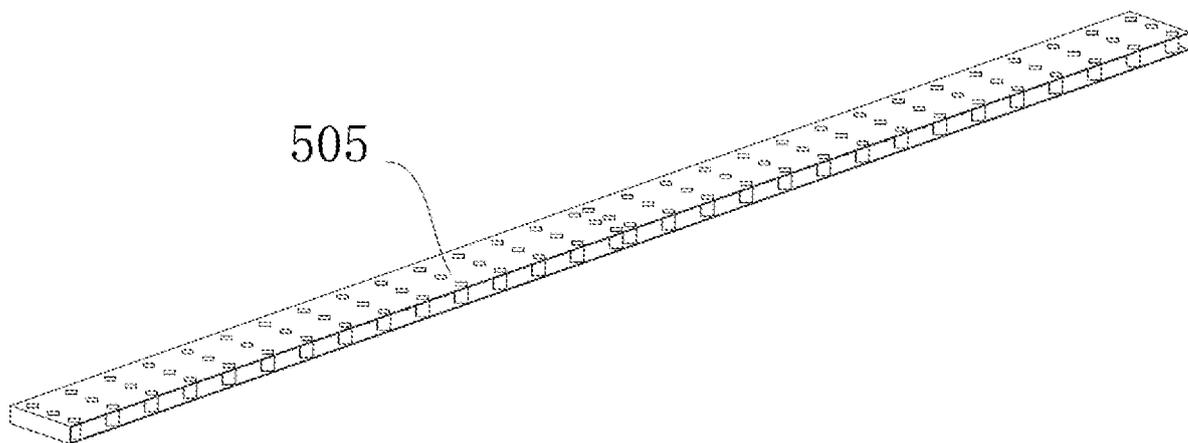


Figure 7

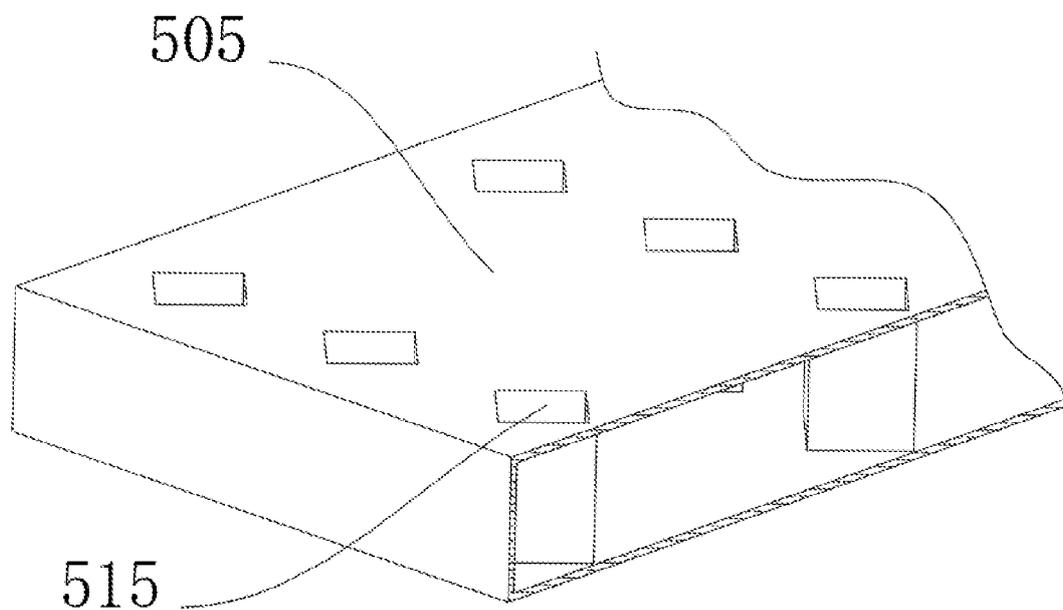


Figure 8

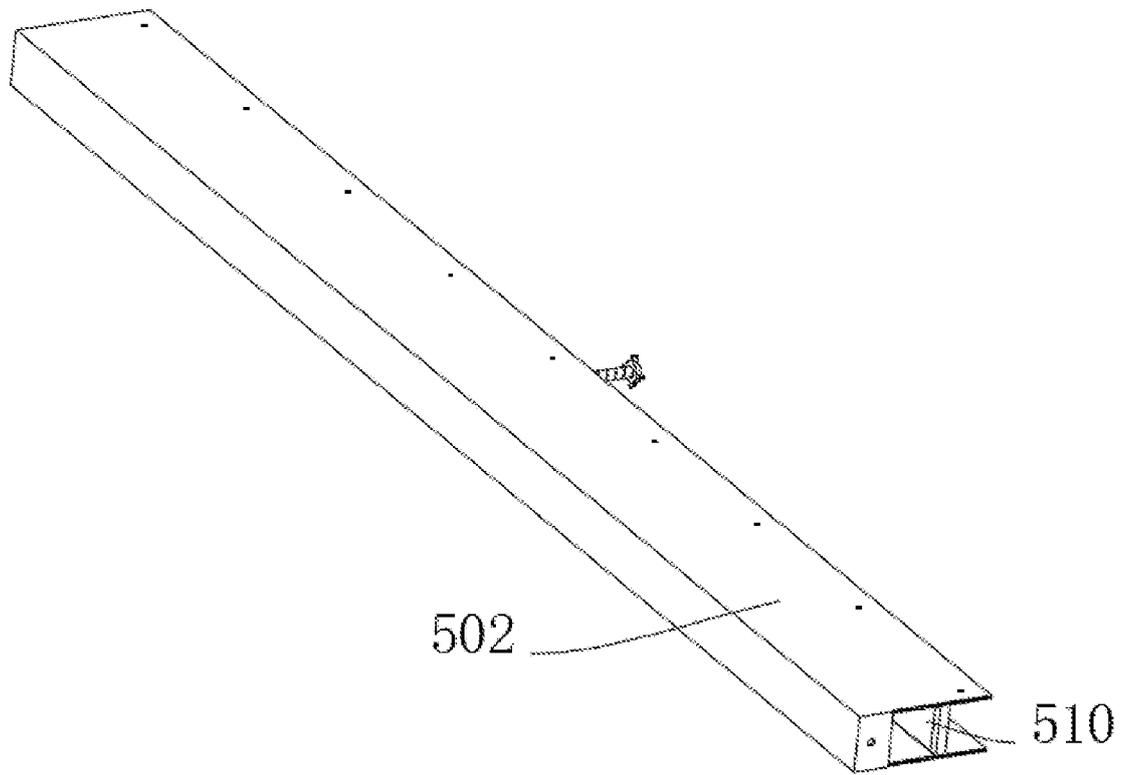


Figure 9

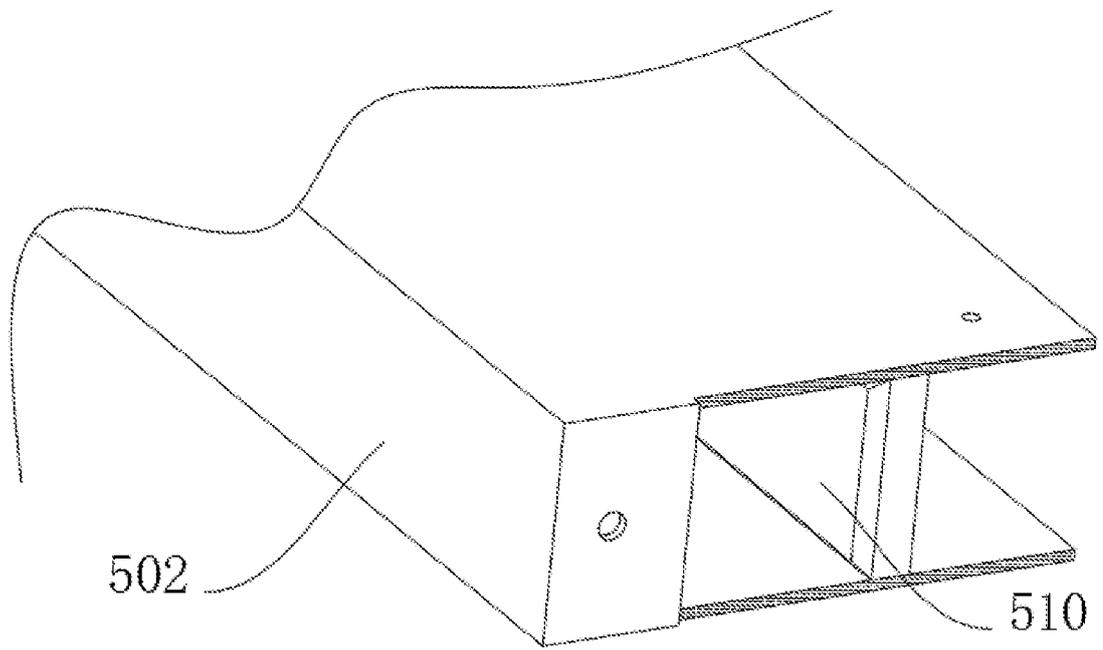


Figure 10