

O. A. MÜLLER.
WIRE SUPPORT FOR PLANTS.
APPLICATION FILED JUNE 26, 1909.

948,672.

Patented Feb. 8, 1910.

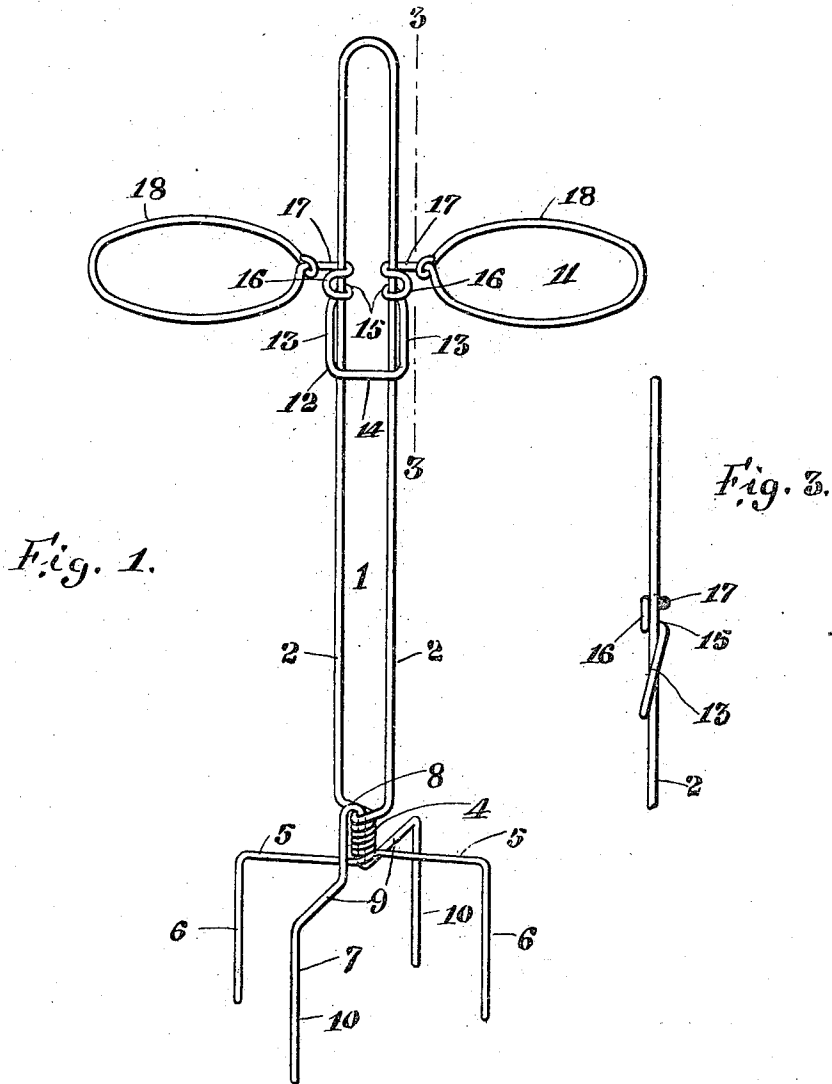


Fig. 1.

Fig. 3.

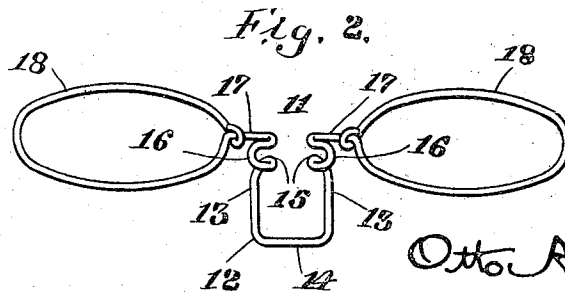


Fig. 2.

WITNESSES

E. M. Ware
S. L. Harper

INVENTOR

Otto A. Müller

BY

A. V. Trout

ATTORNEY

UNITED STATES PATENT OFFICE.

OTTO ALBERT MÜLLER, OF AMBLER, PENNSYLVANIA.

WIRE SUPPORT FOR PLANTS.

948,672.

Specification of Letters Patent.

Patented Feb. 8, 1910.

Application filed June 26, 1909. Serial No. 504,531.

To all whom it may concern:

Be it known that I, OTTO ALBERT MÜLLER, citizen of the United States, residing at Ambler, in the county of Montgomery and State of Pennsylvania, have invented certain new and useful Improvements in Wire Supports for Plants, of which the following is a specification.

The object of this invention is to provide a novel, simple and efficient support for growing plants, including a standard having a lower end adapted to be inserted into the ground, and a plant-supporting section adapted to be engaged with and supported by the standard, as will be hereinafter fully described and particularly claimed.

In the drawings:—Figure 1 is a perspective view of my improved plant support. Fig. 2 is a perspective view of the plant-supporting section removed from the standard. Fig. 3 is a vertical section on line 3—3 of Fig. 1.

1 designates a standard forming the main section of the device. This standard is formed of a single piece of wire, and it comprises the vertically-arranged parallel parts or rods 2 connected at their upper ends by a loop. The lower portions of the parts or rods 2 are bent or twisted together as at 4, and they are then bent outwardly to form the horizontal parts 5, and then downwardly to form the supporting legs 6.

Engaged with the main section 1 of the device, is a second section 7 which is formed of a single piece of wire, and comprises the central, vertical loop 8, one limb of which extends down through the twisted portion 4 of the section 1 and is rotatably confined therein. The portions of the two sides of the loop 8 are bent outwardly to form the horizontal parts 9, corresponding with the parts 5, and then downwardly to form the vertical legs 10, corresponding with the legs 6. The section 7 is adapted to be adjusted or turned within the twisted portion 4 of the section 1 to bring the parts 9 substantially parallel with the parts 5 and the legs 10 adjacent the legs 6, thus flattening the standard section and adjustable leg section 7 for packing purposes; and the section 7 is adapted to be adjusted or turned within the twisted portion 4 of the section 1 to bring the parts 9 at right angles to the parts 5 and the legs 6 and 10 at equal distances from each other, as shown in Fig. 1. In this position of the parts the legs 6 and 10

may be pressed down into the earth to form a firm and rigid support for the standard.

Engaged with the vertical rods 2 of the main section or standard 1, is a plant-supporting section 11 which is formed of a single piece of wire, the central portion of which is bent to form a loop 12 having side portions 13 and an end portion 14 connecting the lower ends of the side portions 13. The upper ends of the side portions 13 are bent inwardly as at 15, and are engaged with the rods 2 on one side of the standard while the end portion 14 connecting said portions 13 is engaged with the rods on the opposite side of the standard.

From the inwardly bent upper ends 15 of the side portions 13 of the loop 12, the wire is bent to form hooks 16 which extend from the upper ends 15 of the side portions 13 between and part way around the rods 2. The wire is then bent back between and around the rods 2 and is extended outwardly to form arms 17 on the same side of the rods 2 as the upper ends 15 of the side portions 13 of the loop 12. From the outer portions of the arms 17 the wire is bent to form rings or plant-engaging members 18 carried by the arms 17.

The plant-supporting section 11 is removable from the section 1, and any number of plant-supporting sections may be used upon the standard as desired.

When it is desired to remove the section 11 from the standard, the side portions 13 of the loop 12 are moved inwardly or toward each other, to disengage the hooks 16 from the rods 2; whereupon the rods 2 will be merely confined between the side portions 13 of the loop. In this position of the parts, the section 11 may be readily removed from the standard 1 by moving the loop 12 from the rods 2 or moving the rods 2 out through the end of the loop 12 between the hooks 16.

The section 11 may be applied to the standard 1 by reversal of the operation just described of removing it therefrom.

When it is desired to pack or store it away, the plant-supporting section 11 is removed from the standard 1 as just described, and the sections 1 and 7 may be flattened by adjusting section 7 to bring the legs 10 to a position adjacent the legs 6.

In using my improved plant-support, the legs 6 and 10, in the position shown in the drawings; are forced into the earth between two adjacent plants, a sufficient distance to

properly support the standard 1 in an upright position, and the plant-supporting section 11 is applied to the standard 1 as previously explained, in any desired vertical position with respect to the standard 1 to properly support the plant or plants which extend up through the rings 18. The pressure of the plants against the rings 18 is in a downward direction, and also the pressure of the engagement of the hand or arm of an attendant in picking the flowers or adjusting the plants or plant-support is usually in a downward direction, and it will therefore be seen that the manner of constructing the section 11 as hereinbefore described will permit this downward pressure against the rings 18, which pressure will cause the hooks 16 to more firmly engage the rods 2 and be braced by the said members 13 of the loop 12.

20 I claim:—

1. In a plant support, the combination of a standard including two vertical rods arranged in spaced relation to each other; a plant supporting section engaged with the standard and comprising a loop having side portions extending from the rearward side of the standard to the forward side thereof; and an end portion connecting said side portions and engaged with the forward side of the standard, said side portions having hooks connected thereto and engaging the rearward side of the standard and extending

through the space between the rods of the standard to the forward side of the standard; an arm projecting from one of the said hooks and a plant engaging member carried by said arm. 35

2. In a plant support, the combination of a standard including two vertical rods arranged in spaced relation to each other; a plant supporting section engaged with the standard and comprising a loop having side portions extending from the rearward side of the standard to the forward side thereof; and an end portion connecting said side portions and engaged with the forward side of the standard, said side portions having hooks connected thereto and engaging the rearward side of the standard and extending through the space between the rods of the standard to the forward side of the standard; an arm projecting from one of said hooks at the rearward side of the standard, a plant-engaging member carried by said arm, an arm projecting from the other of said hooks, and a plant-engaging member carried by the last named arm. 40 45 50 55

In testimony whereof I affix my signature in presence of two witnesses.

OTTO ALBERT MÜLLER.

Witnesses:

CHAS. A. HIBSCHMAN,
FRANK B. DREBY.