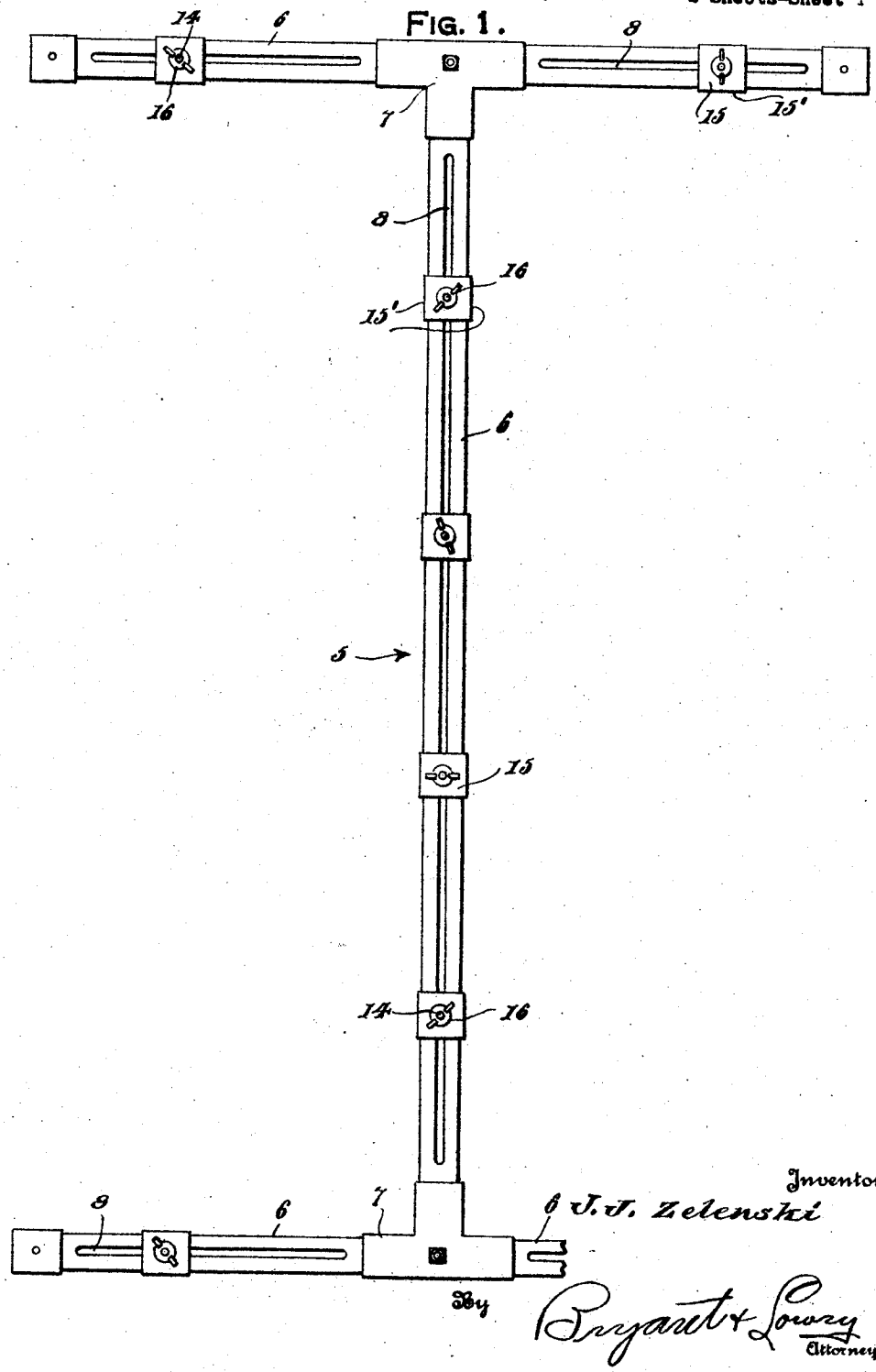
Sept. 15, 1925. 1,554,062

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GREENHOUSE BENCH MARKER

Filed March 19, 1925 2 Sheets-Sheet 1

FIG. 1.



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Fig. 2.

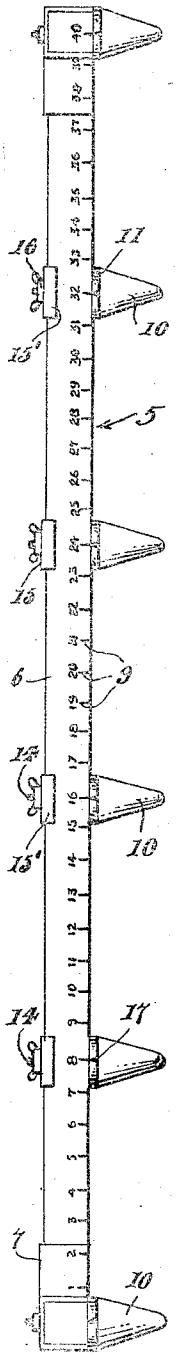


Fig. 4.

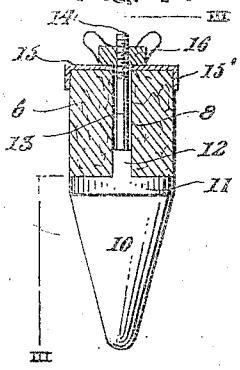


Fig. 3.

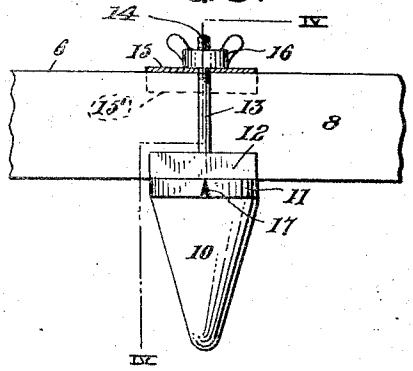


Fig. 7.

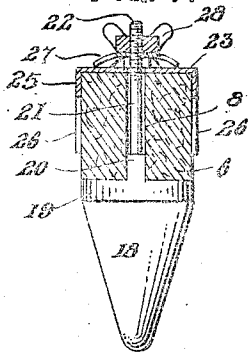


Fig. 5.

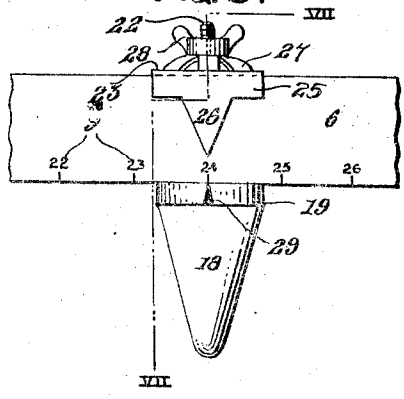


Fig. 8.

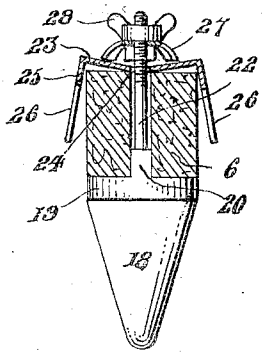
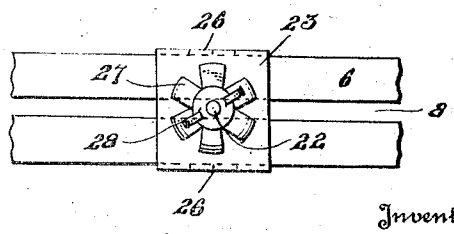


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOSEPH J. ZELENSKI, OF SOUTHAMPTON, NEW YORK.

GREENHOUSE-BENCH MARKER.

Application filed March 19, 1925. Serial No. 16,756.

To all whom it may concern:

Be it known that I, JOSEPH J. ZELENSKI, a citizen of the United States of America, residing at Southampton, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Greenhouse-Bench Markers, of which the following is a specification.

This invention relates to improvements in greenhouse bench markers.

The primary object of this invention is to provide a marker suitable for use in greenhouses to form seed, bulb, or plant slip receiving holes in the soil supported by the usual greenhouse benches.

A further object of the invention is to provide a marker of the above mentioned type wherein the multiplicity of hole forming elements are adjustably supported by a frame which is properly scaled off to permit accurate spacing of the said elements.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a top plan view, partly broken away, of the type of greenhouse bench marker embodying this invention,

Figure 2 is an elevational view of the marker shown in Fig. 1,

Figure 3 is a sectional view taken upon lines III—III of Fig. 4 and shows one form of hole forming element embodying this invention,

Figure 4 is a sectional view taken upon lines IV—IV of Fig. 3,

Figure 5 is an elevational view of a fragmentary portion of the marker frame and a modified form of hole forming element embodying this invention,

Figure 6 is a top plan view of the structure shown in Fig. 5,

Figure 7 is a sectional view taken upon line VII—VII of Fig. 5, and

Figure 8 is a similar view to Fig. 7, but shows the holding means for the hole forming element loosened to permit adjustment of the said element.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of this invention, the numeral 5 designates in its entirety the frame portion of the marker embodying this invention. This frame portion includes the strips 6 which may be suitably connected by any form of coupler 7 to produce a frame of any desired configuration, the frame 5 shown in Fig. 1 being of substantially H-shape. Each strip 6 is provided with a longitudinally extending slot 8 which extends entirely through the strip from the top to the bottom faces of the same. In Figs. 2 and 5 the strips 6 are illustrated as having scale lines 9 formed thereon which may be arranged to designate inches or any desired fractions thereof.

The frame 5 is provided with hole forming elements which are adjustable in respect thereto for permitting holes, adapted for receiving seeds, bulbs, or plant slips, to be formed at any desired distance in respect to each other. In Figs. 3 and 4 one form of hole forming element is illustrated and includes a conical peg portion 10 having the cylindrical part 11 formed on its larger end and provided with a rectangularly-shaped web portion 12 integrally connected thereto. Projecting from the free longitudinal face of the web 12 and axially in respect to the peg 10 is a stem 13 threaded at its outer end 14. In these two figures, the hole forming element is illustrated as having the rectangular web 12 projecting into the slot 8 of the strip 6 with the stem 13 extending entirely through the remaining portion of the slot and projecting beyond the upper face of the strip 6. Loosely mounted upon the threaded end of the stem 13 is a plate 15 having the angularly arranged flanges 15′ formed on opposite edges thereof. It will be seen that this plate 15 bridges the slot 8 and is arranged with its flanges 15′ engaging the opposite longitudinal faces of the strip 6. A wing nut 16 is threaded upon the free end of the stem 13 and is employed for drawing the plate 15 and peg 10 toward each other to clamp the entire hole forming element to the strip 6. In Fig. 3 the cylindrical portion 11 of the peg 10 is illustrated as being provided with a triangularly-shaped mark or pointer 17 which will cooperate with the scale lines 9 on the strip for permitting proper location of the various hole forming elements in respect to each other.

In Figs. 5 to 8 inclusive there is shown a slightly modified form of hole forming element which includes a conical peg 18 having a cylindrical portion 19 formed integrally therewith. This cylindrical por-

tion 19 is provided with a web 20, as best shown in Figs. 7 and 8. Projecting from the free longitudinal face of the web 20 is a stem 21 having its free end threaded at 22. It will be seen that the parts 18 to 22 of this modified form of hole forming element are of identical shape with the parts 10 to 14 of the form of hole forming element shown in Figs. 3 and 4. This modification further includes a plate 23 which is transversely bent as at 24 and is provided with the side flanges 25 having the points 26 projecting from the free longitudinal edges of the same. This plate 23 is loosely mounted upon the threaded end 22 of the stem 21 and the flanges 25 and point 26 are arranged on opposite sides of the strip 6. A spring washer, of substantially star-formation, is shown as mounted upon the stem 21 and as designated by the reference numeral 27. This threaded end 22, of the stem 21, is also illustrated as being provided with a wing nut 28 by means of which the spring washer and plate and the peg may be drawn toward each other to clamp the entire hole forming element to the strip 6. It will be seen, by comparing Figs. 7 and 8, that the transversely bent plate 23 will be flattened out to flushly engage the top face of the strip 6, when the nut 28 is threaded downwardly upon the stem 21, and the flanges 25 and points 26 will be moved into flush engagement with the side faces of the strip 6. The cylindrical portion 19 of this modified form of hole forming element is also provided with a triangularly-shaped mark 29 which cooperates with the point 26 on the adjacent flange 25 of the plate 23 and the scale lines 9 for permitting accurate spacing of the various hole forming elements.

It will now be seen that the two different forms of hole forming elements may be adjusted longitudinally in respect to the strips 6 by merely loosening the wing nuts threaded upon their respective stems and sliding the said elements longitudinally of the strips.

It is to be understood that the forms of this invention herewith shown and described are to be taken as preferred examples of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described the invention, I claim:—

1. In a device of the type described, a slotted frame, and a plurality of hole forming elements adjustably carried by the frame, said elements each including a peg, a web carried by the peg and receivable within the slot of said frame, a stem projecting from the web through the slot, a plate loose on the free end of the stem for bridging the slot in the frame, and means adjustably mounted on the stem for drawing the plate and peg toward each other to clamp the frame therebetween.

2. In a device of the type described, a slotted frame, and a plurality of hole forming elements adjustably carried by the frame, said elements each including a peg, a web carried by the peg and receivable within the slot of said frame, a stem projecting from the web through the slot, a plate loose on the free end of the stem for bridging the slot in the frame, said plate having annularly arranged flanges for engaging the opposite sides of said frame, and means adjustably mounted on the stem for drawing the plate and peg toward each other to clamp the frame therebetween.

3. In a device of the type described, a slotted frame, and a plurality of hole forming elements adjustably carried by the frame, said elements each including a peg, a web carried by the peg and receivable within the slot of said frame, a stem projecting from the web through the slot, a transversely bent flexible plate loose on the free end of the stem for bridging the slot in the frame, a nut threaded on the stem for drawing the plate and peg toward each other to clamp the frame therebetween, and a spring washer for locking the nut, said nut and washer causing the bent plate to flatten out against the adjacent face of the frame.

In testimony whereof I affix my signature.

JOSEPH J. ZELENSKI.