

No. 615,845.

Patented Dec. 13, 1898.

F. M. GREENUP.
GLOBE HOLDER.

(Application filed Mar. 31, 1898.)

(No Model.)

Fig - 1 -

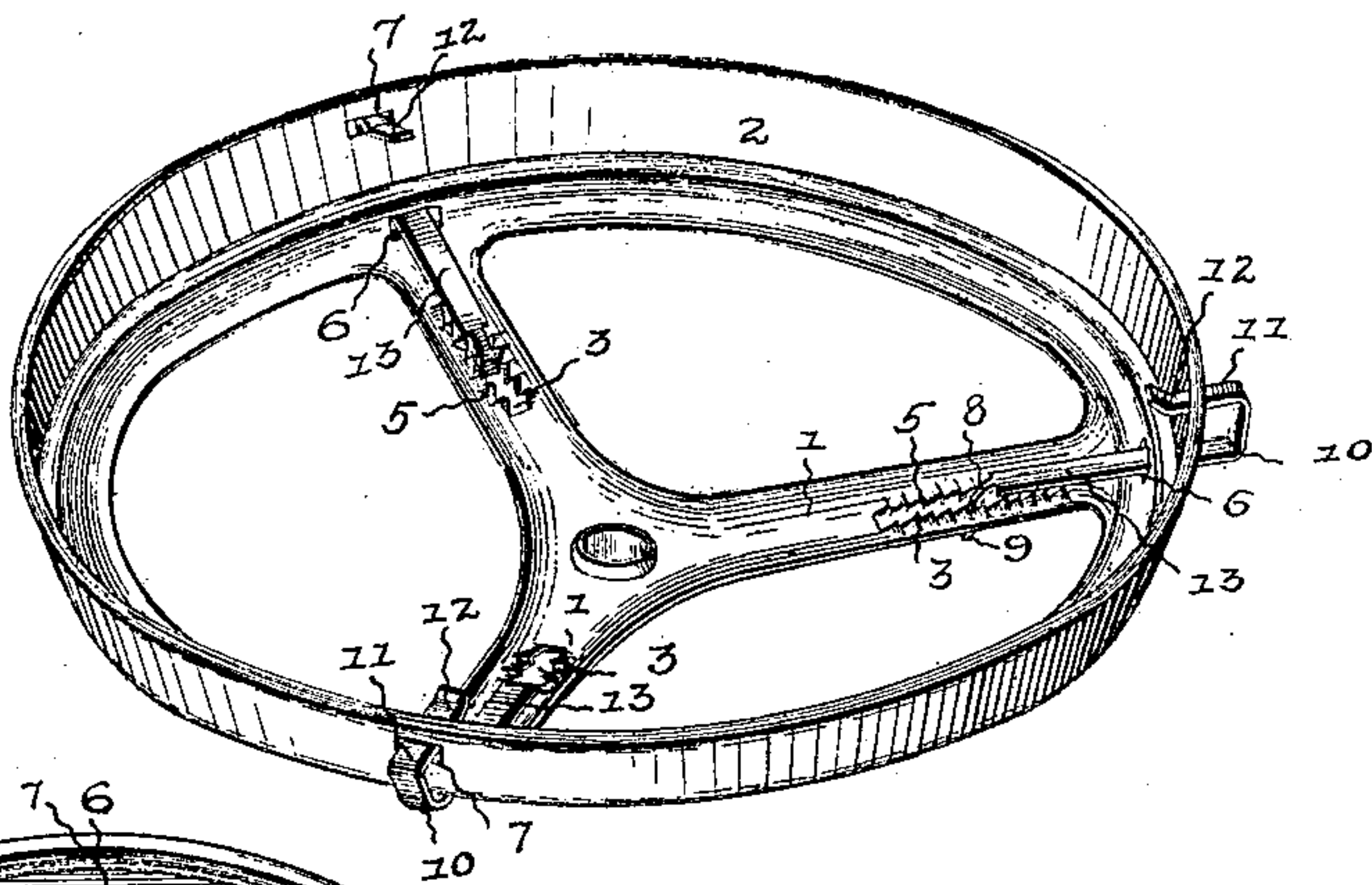


Fig - 2 -

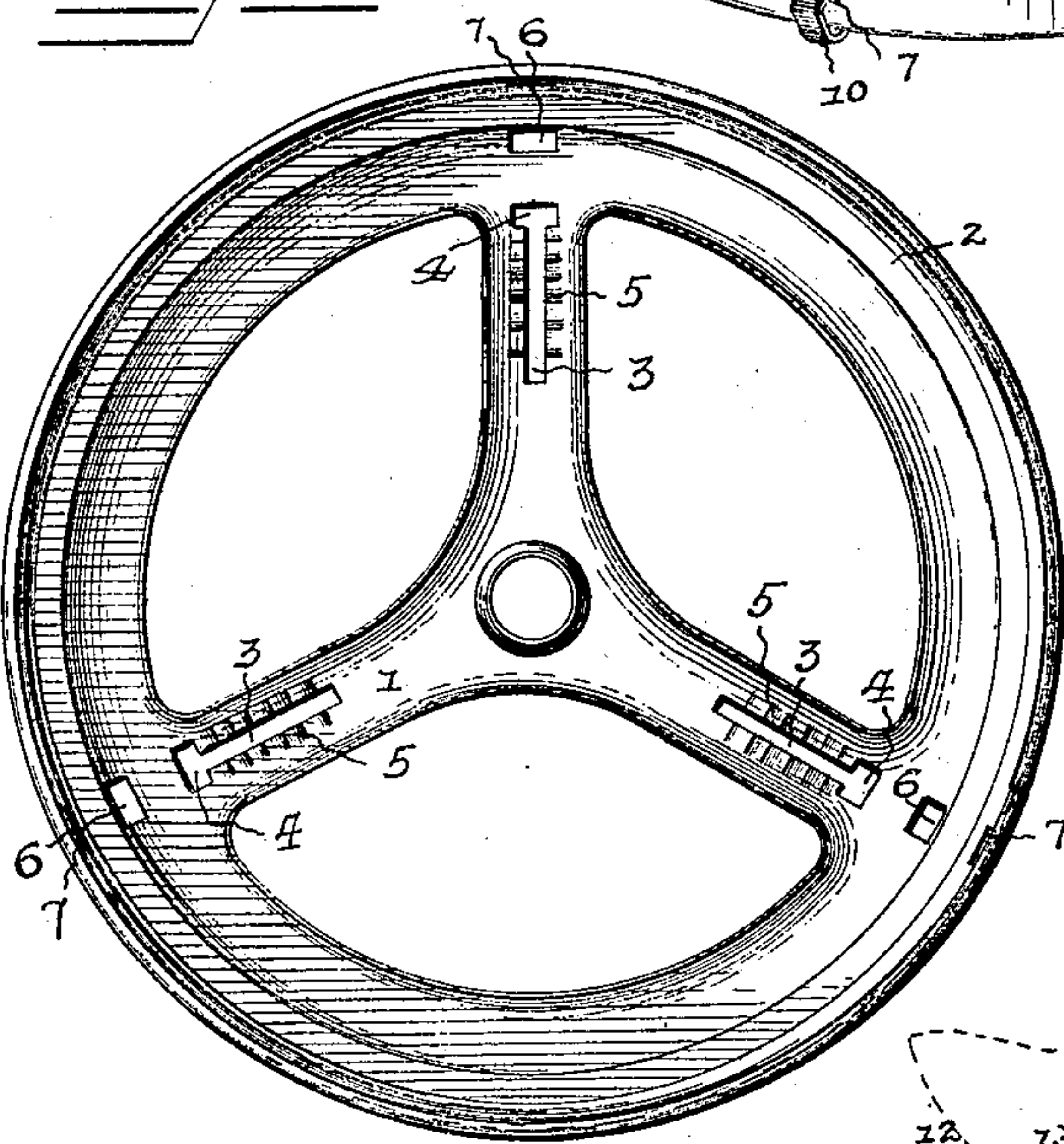


Fig - 4 -

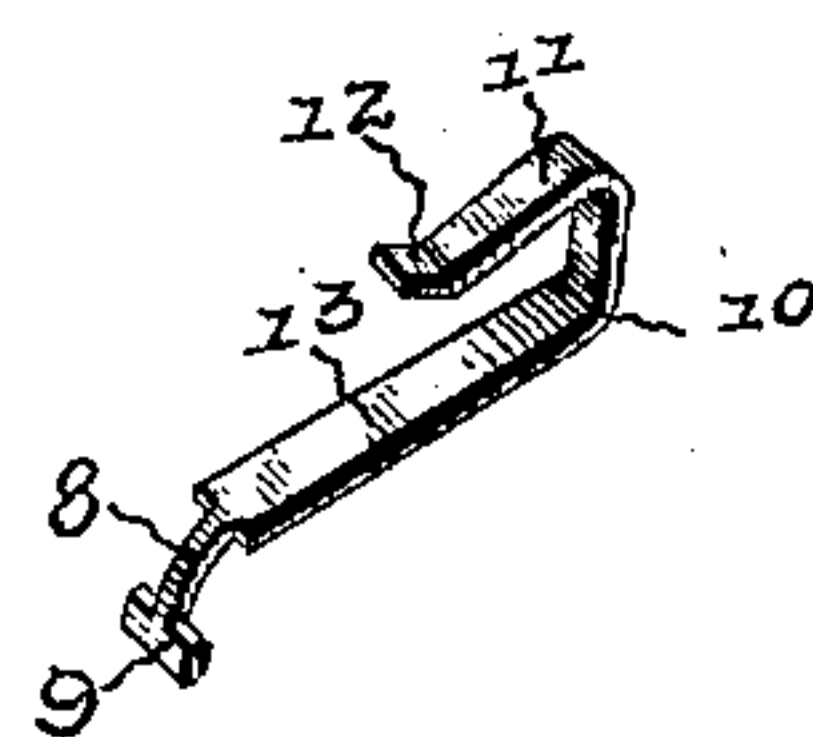
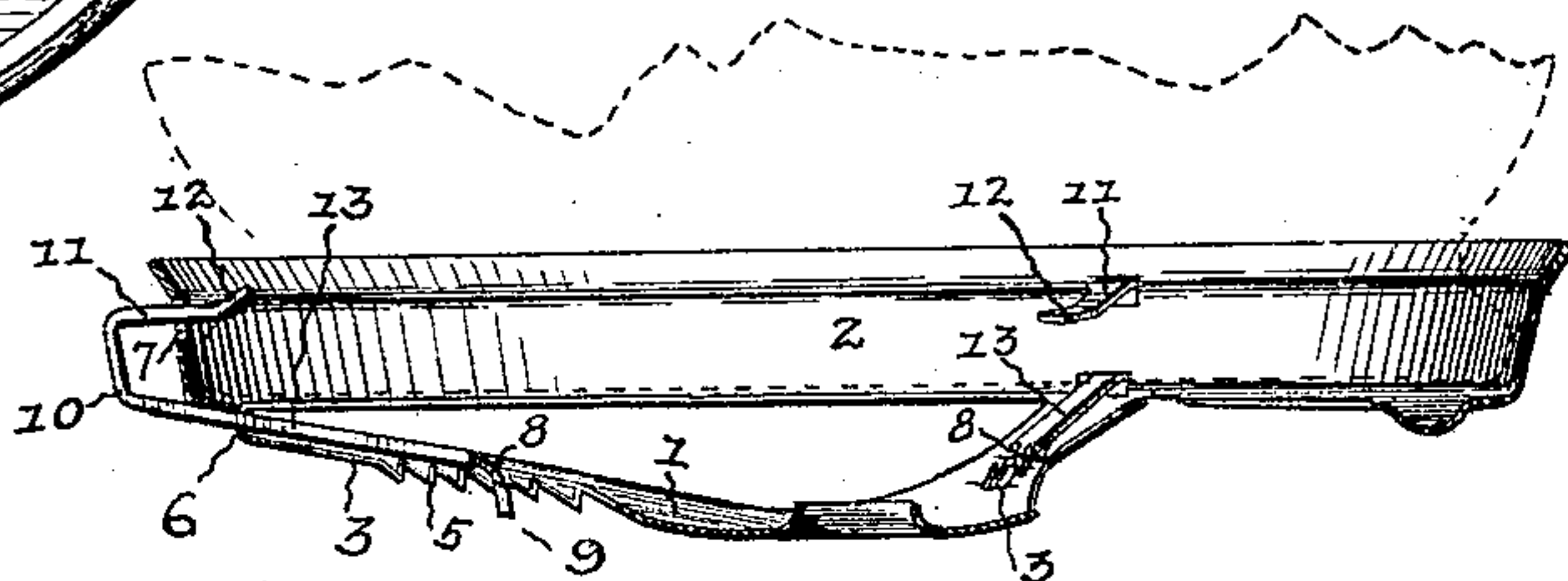


Fig - 3 -



Witnesses:-

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UNITED STATES PATENT OFFICE.

FRANCIS M. GREENUP, OF ST. LOUIS, MISSOURI.

GLOBE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 615,845, dated December 13, 1898.

Application filed March 31, 1898. Serial No. 675,933. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. GREENUP, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented
5 a new and useful Globe-Holder, of which the following is a specification.

This invention has relation to holders for the globes of gas, electric, and other illuminating fixtures, and is designed to devise a
10 construction which will admit of the holders being more durable and obviating possible slipping of the globe and at the same time simplify and cheapen their construction.

To this end the invention consists in a support comprising radial arms and an upwardly-extending flange or rim having openings and slides having an adjustable locking engagement with the radial arms, the free ends of the slides entering the rim through the openings, so as to bear against the exterior of the globe from the outside of the rim and clamp the globe firmly in position.

The improvement also consists of the novel features and details of construction which
25 will be set forth at length hereinafter; and for a full understanding of the merits and advantages resulting from such novel combinations reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the
35 advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a globe-holder constructed in accordance with this invention. Fig. 2 is a plan view thereof, the slides being omitted. Fig. 3 is a transverse section, the dotted lines showing the relation of a globe. Fig. 4 is a detail view in perspective of a slide.

45 Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by the same reference characters.

The holder may have any of the usual
50 forms, and comprises arms 1 and a rim 2, the latter consisting of an approximate horizontal and a vertical portion. Radial slots 3 are formed in the outer ends of the arms 1, and

their outer ends are enlarged, as shown at 4. Ratchet-teeth 5 are provided at the sides of
55 the slots 3 to cooperate with the slides, so as to retain them in an adjusted position. Openings 6 are formed in the approximate horizontal portion of the rim near its outer edge in line with the slots 3, and other openings 7 are
60 formed in the vertical portion of the rim near its upper edge and directly above the openings 6 and in line with the slots 3.

The slides, grippers, or jaws for engaging with the rim at the base of the globe are
65 formed from sheet metal or narrow flattened strips which are bent about as shown, and have adjustable connection with the rim 2 and arms 1 in the manner presently to be described. The blank from which a slide or
70 gripper is constructed has one end notched in its opposite edges, forming a neck 8 and a cross-head 9, the neck portion being bent so as to admit of the head 9 coming below an arm 1 and engaging with the ratchet-teeth 5
75 upon opposite sides of the slot in which the neck 8 operates. The opposite end portion of the blank is bent, as shown at 10, to extend vertically, and is deflected to extend about parallel with the body portion of the
80 blank, as shown at 11, to make direct and positive engagement with the rim portion of the globe. The bent end 11 of the blank extends about horizontally, and its terminal portion is deflected upwardly, as shown at 12,
85 and constitutes a stop to limit the outward movement of the slide by engaging with the inner side of the rim 2, and likewise provide for an extended bearing of the side against the globe, so as to obviate injury thereto.
90 The longer or horizontal member 13 of the slide or gripper operates through an opening 6 and over an arm 1, whereas the upper member or bent end 11 works through an upper opening 7.

The body portion of the holder, comprising the arms and rim, is struck up, pressed, or formed in any of the usual ways, the several openings, slots, and ratchet-teeth being simultaneously formed with the stamping or
100 pressing operation, thereby dispensing with subsequent handling, which would add appreciably to the cost of manufacture. The slides or grippers are likewise formed by a stamping or pressing process.

The parts are assembled by passing the
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cross-head 9 of a slide through an opening 6, thence down through the enlarged end portion 4 of the slots, after which the slide is moved inward until the bent end 12 comes in contact with the outer side of the rim, when it is pressed so as to permit said bent end passing through the upper opening 7. It will thus be seen that the assembling of the parts can be quickly and economically effected.

The slides are moved outward by engaging the cross-heads 9 by means of a finger-nail and pressing downward and outward thereon, the downward pressure disengaging the cross-heads from the ratchet-teeth and the outward pressure causing the slides to move toward the outer portion of the holder. After the globe has been placed in position the slides are pressed inward until the bent ends 12 thereof come in contact with the globe, thereby securing the latter, inasmuch as the slides are held against outward movement by the cross-heads 9 engaging with the ratchet-teeth 5. The members 13 of the slides are resilient and normally exert an upward tendency, thereby bringing the cross-heads 9 into positive engagement with the lower sides of the arms 1 and in contact with the ratchet-teeth, whereby the slides when adjusted are secured. The ratchet-teeth 5 and the portions of the cross-heads opposite thereto are formed to admit of the cross-heads riding upon the teeth when moving the slides inward, but interlock therewith to prevent outward displacement until disengaged from the ratchet-teeth by design, in the manner set forth. The rim 2 has its upper edge portion outwardly flanged to stiffen and strengthen it, thereby enabling the holder to be made of comparatively thin sheet metal, which is of advantage in point of economy of material.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a globe-holder, the combination with a support having a radial series of ratchet-teeth, of slides having their inner ends engaging the ratchet-teeth to provide an adjustable connection with the support, the outer free ends of the slides being adapted to engage the exterior of the globe to conjointly retain the latter in position, substantially as shown and described.

2. In a globe-holder, the combination with a support having radial slots, and ratchet-teeth at the sides of the slots, of slides having adjustable connection with the support and having neck portions at their inner ends to operate in the aforesaid slots and provided with heads at the extremities of the neck portions to engage with the ratchet-teeth and secure the slides in an adjusted position, substantially as described.

3. In a globe-holder, the combination with a support provided with radial slots and ratchet-teeth at the sides of the slots, of slides comprising upper and lower members the lower members having heads and neck por-

tions at their inner ends to cooperate with the radial slots and ratchet-teeth in the manner set forth, and the upper members having their terminal portions bent to limit the outward movement of the slides, substantially as described.

4. In a globe-holder, the combination with a support comprising a rim having upper and lower sets of openings, and having radial slots in the body portion in line with the respective openings, and having ratchet-teeth at the sides of the slots, of slides comprising upper and lower members operating in corresponding upper and lower openings, the upper member having its extremity bent to form a stop and the lower member having a neck portion to operate in the radial slots, and a cross-head to engage with the ratchet-teeth, substantially as and for the purpose set forth.

5. The herein-described globe-holder comprising a rim and arms the latter having radial slots enlarged at their outer ends and provided with ratchet-teeth at the sides of the slots, and the rim having upper and lower sets of openings in line with the radial slots, and slides consisting of upper and lower members, the upper members passing loosely through the upper openings of the rim and having their end portions bent and the lower members passing through the lower set of openings and operating over the arms and having their inner ends deflected and formed with neck and head portions, the neck portions operating in the radial slots and the head portions coming beneath the arms and adapted to cooperate with the ratchet-teeth to hold the slides in an adjusted position, substantially as and in the manner specified.

6. In a globe-holder, the combination with a support comprising a rim having upper and lower sets of openings and having radial slots in the body portion in line with the respective openings, of slides for holding the globe, each slide having one end engaging its respective slot and its other end bent upon itself forming upper and lower members which extend through the upper and lower openings respectively from the outside of the rim and adapted to engage the globe, substantially as shown and described.

7. In a globe-holder, the combination with a support comprising radial arms and an upwardly-extending rim having openings, of slides having an adjustable locking engagement with the radial arms, the free ends of the slides entering the rim from the outside and through the openings so as to bear against the exterior of the globe and retain the latter in position, substantially as shown and described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRANCIS M. GREENUP.

Witnesses:

GUST. R. BRANDAU,
CHAS. J. OBERMEYER.