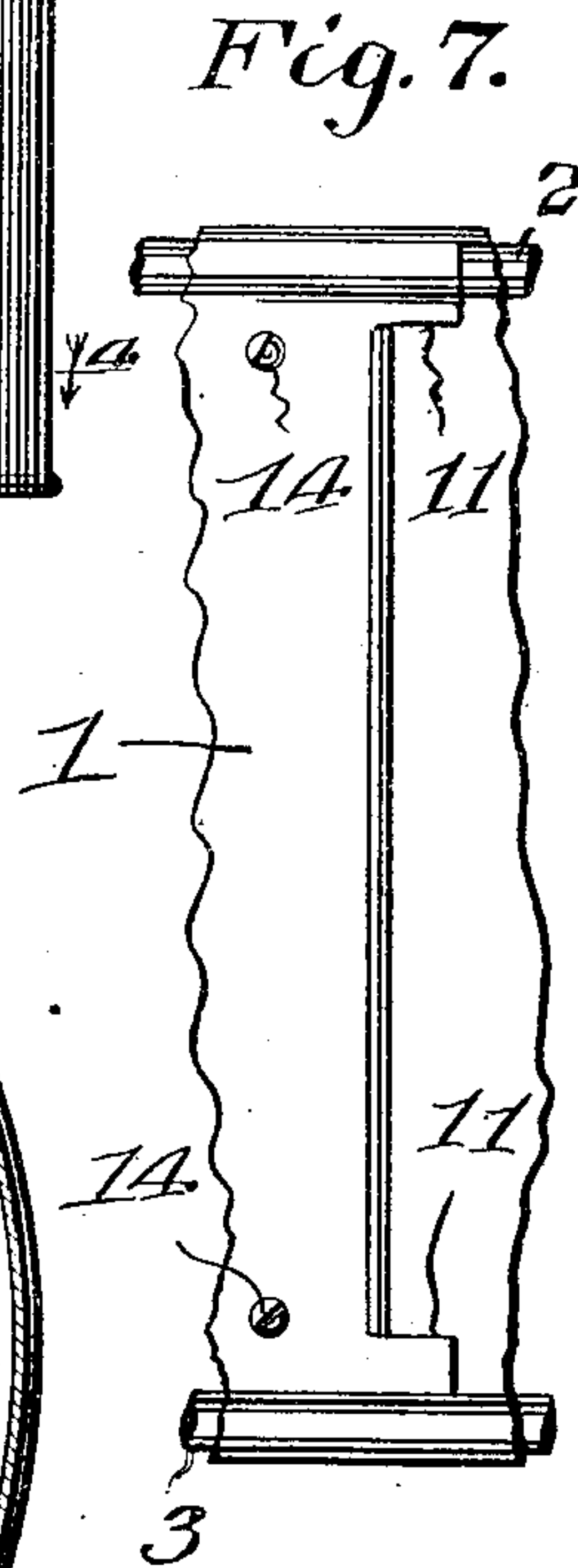
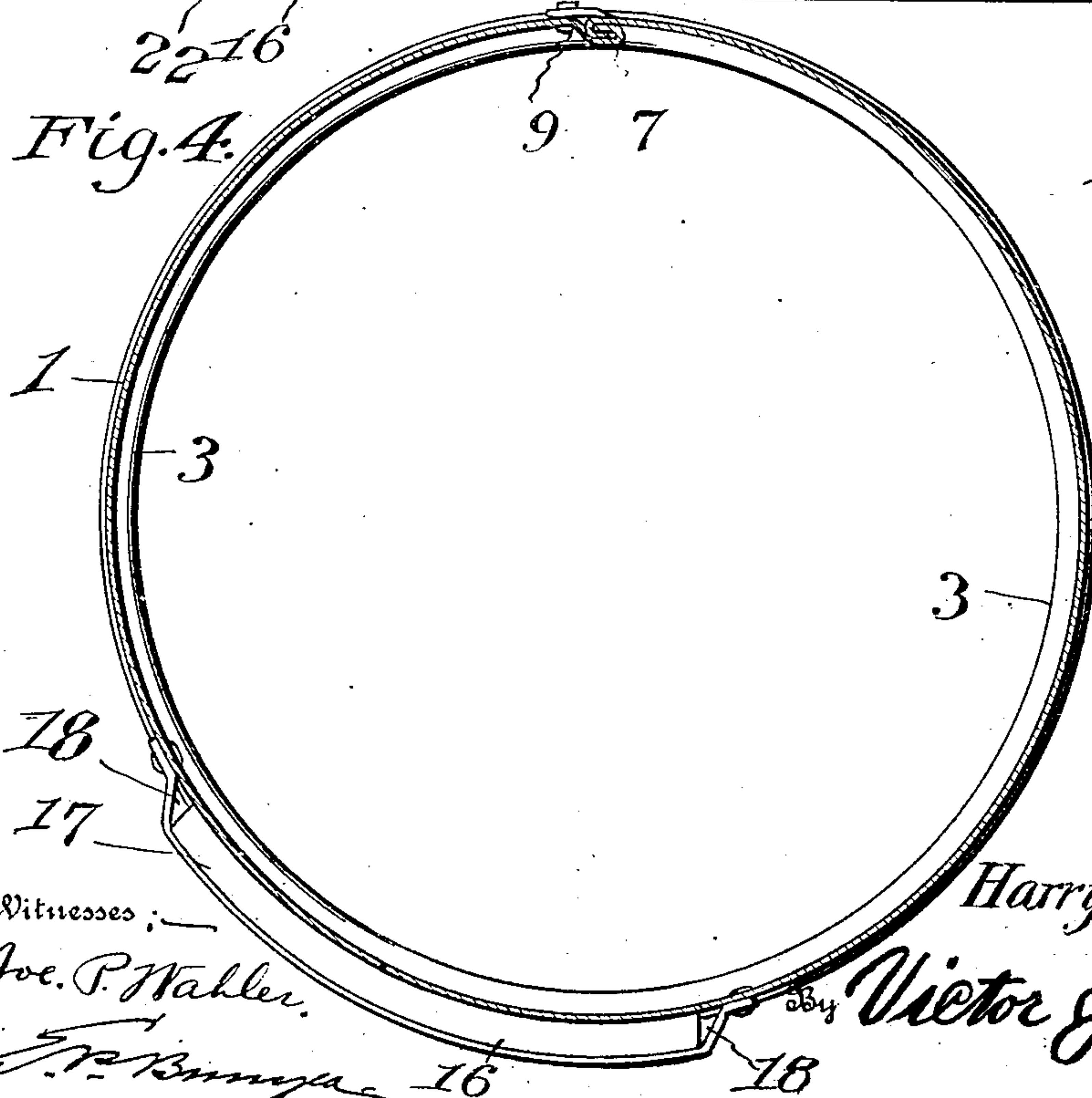
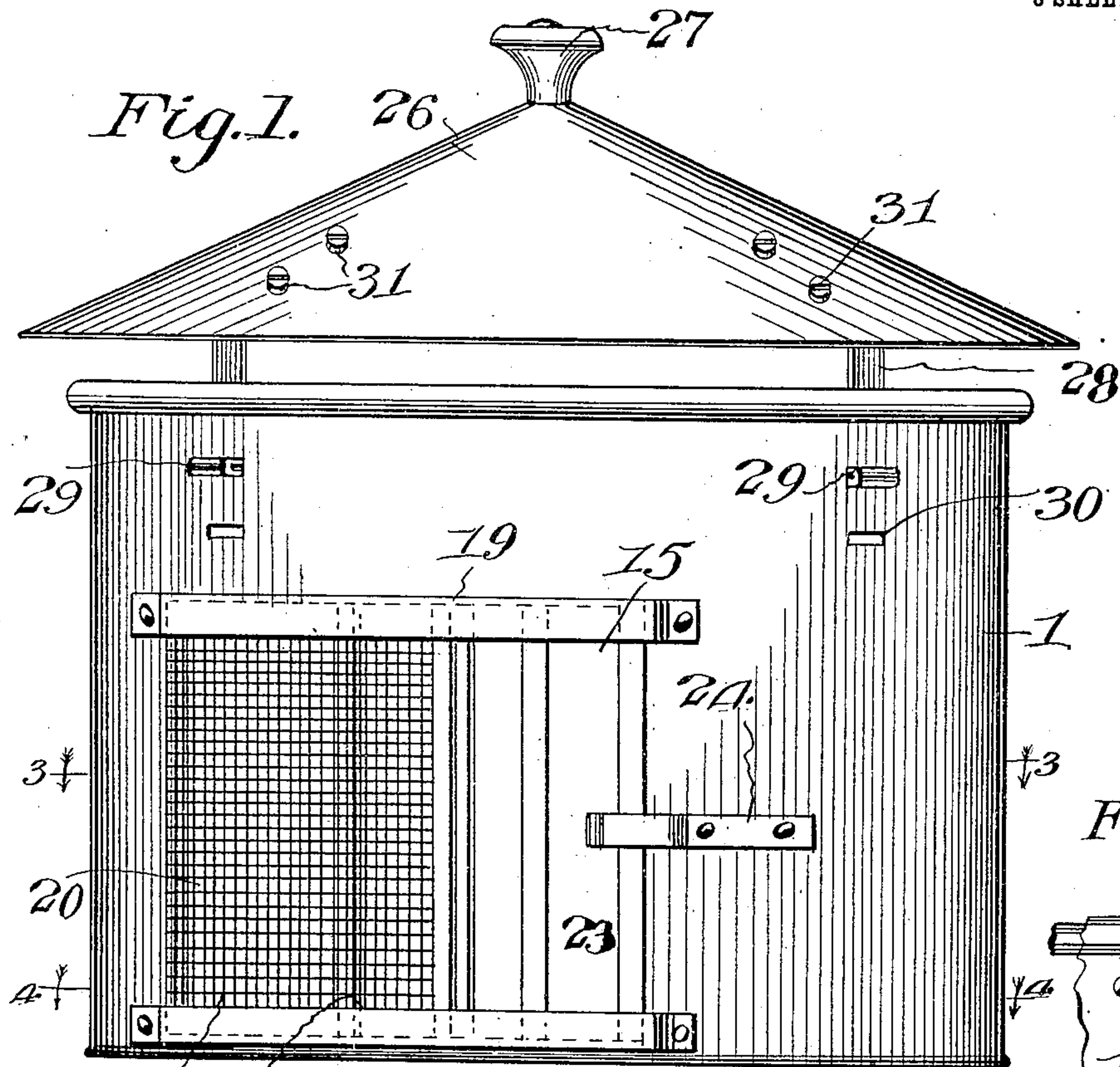


958,630.

H. H. GRANT.
METAL BROODING COOP.
APPLICATION FILED MAR. 16, 1909.

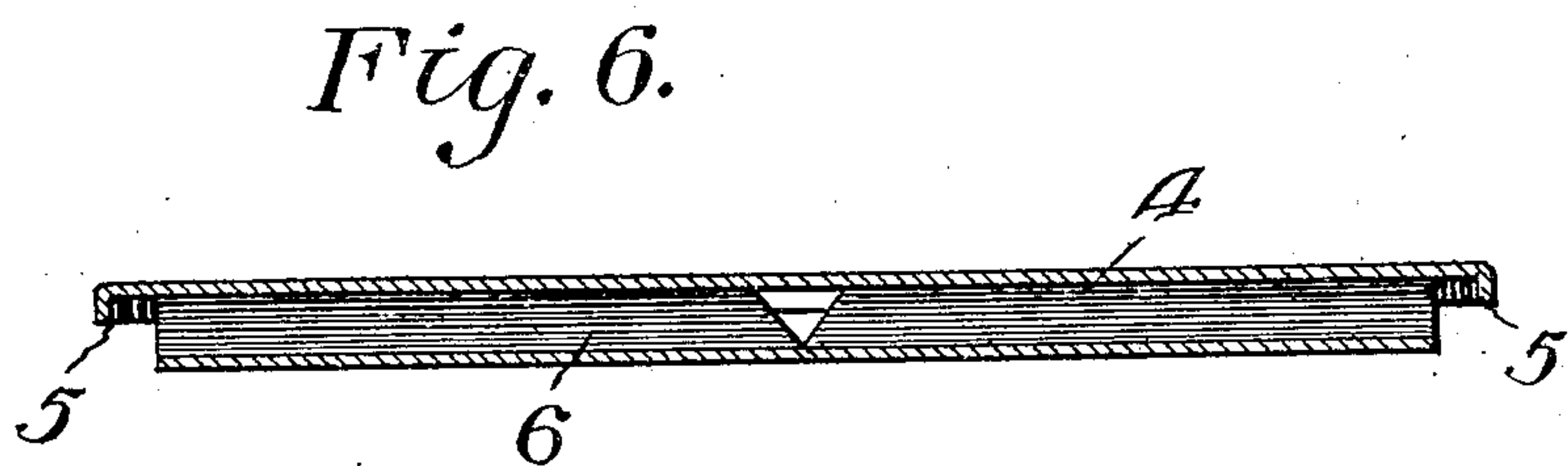
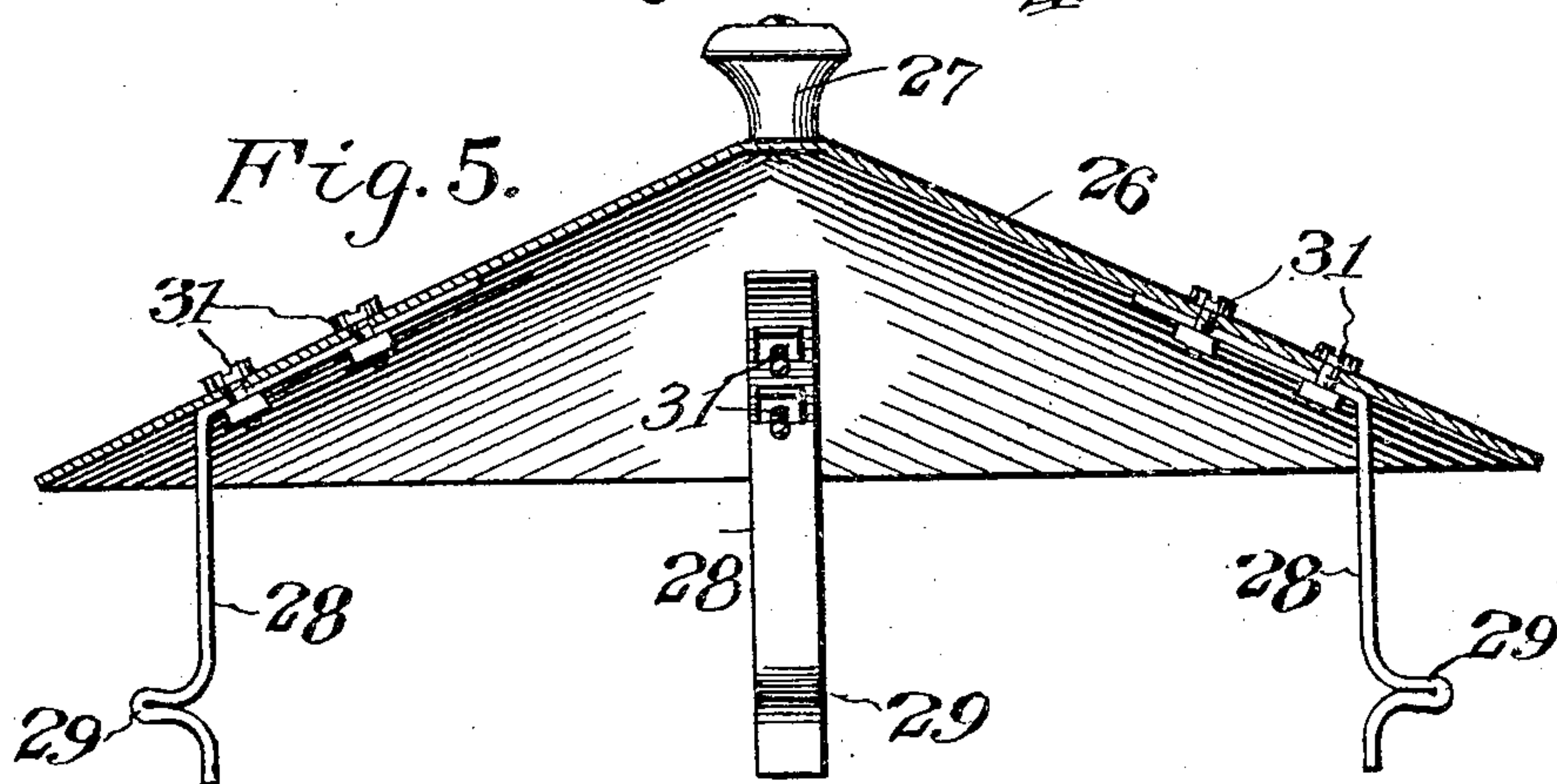
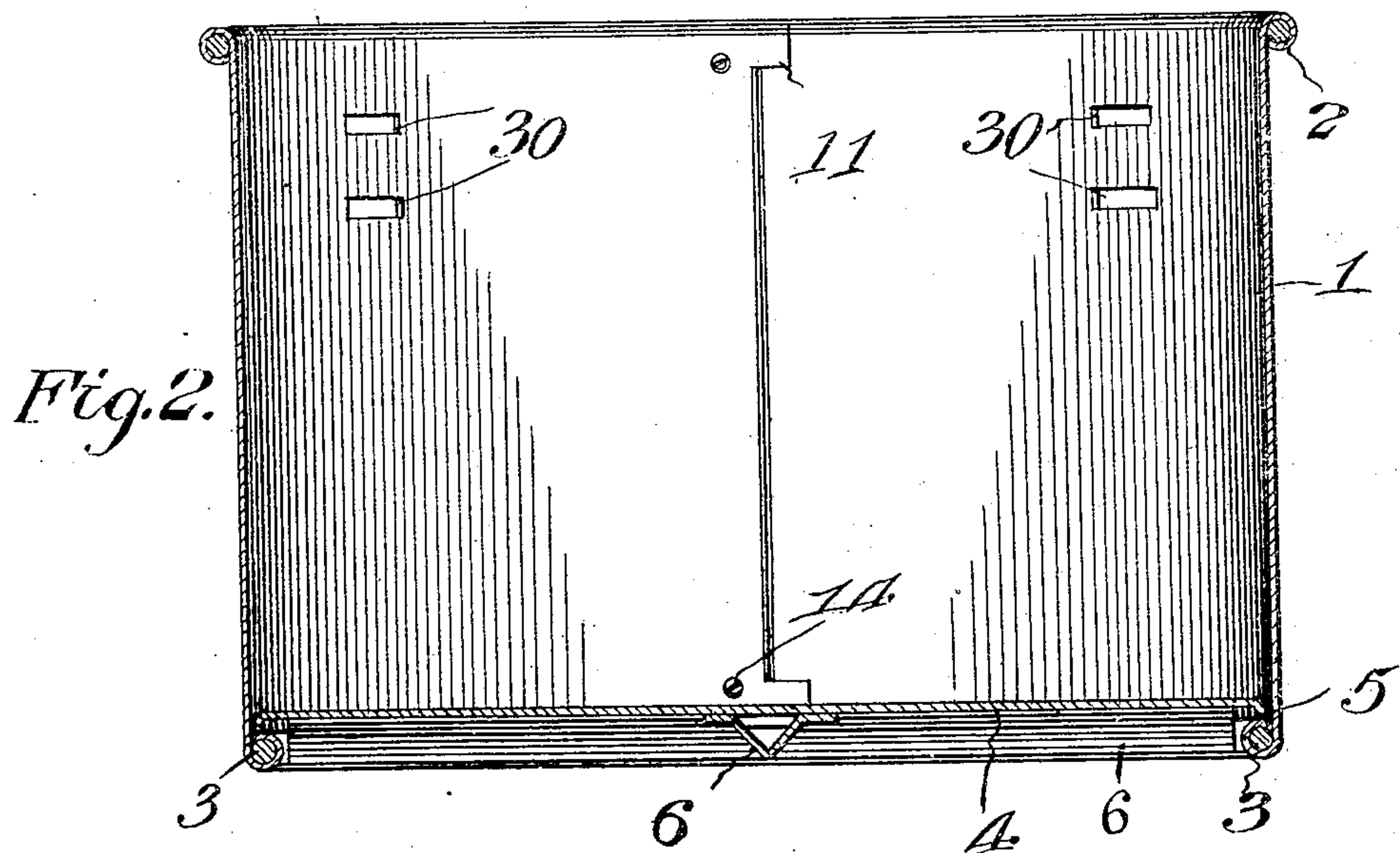
Patented May 17, 1910.

3 SHEETS—SHEET 1.



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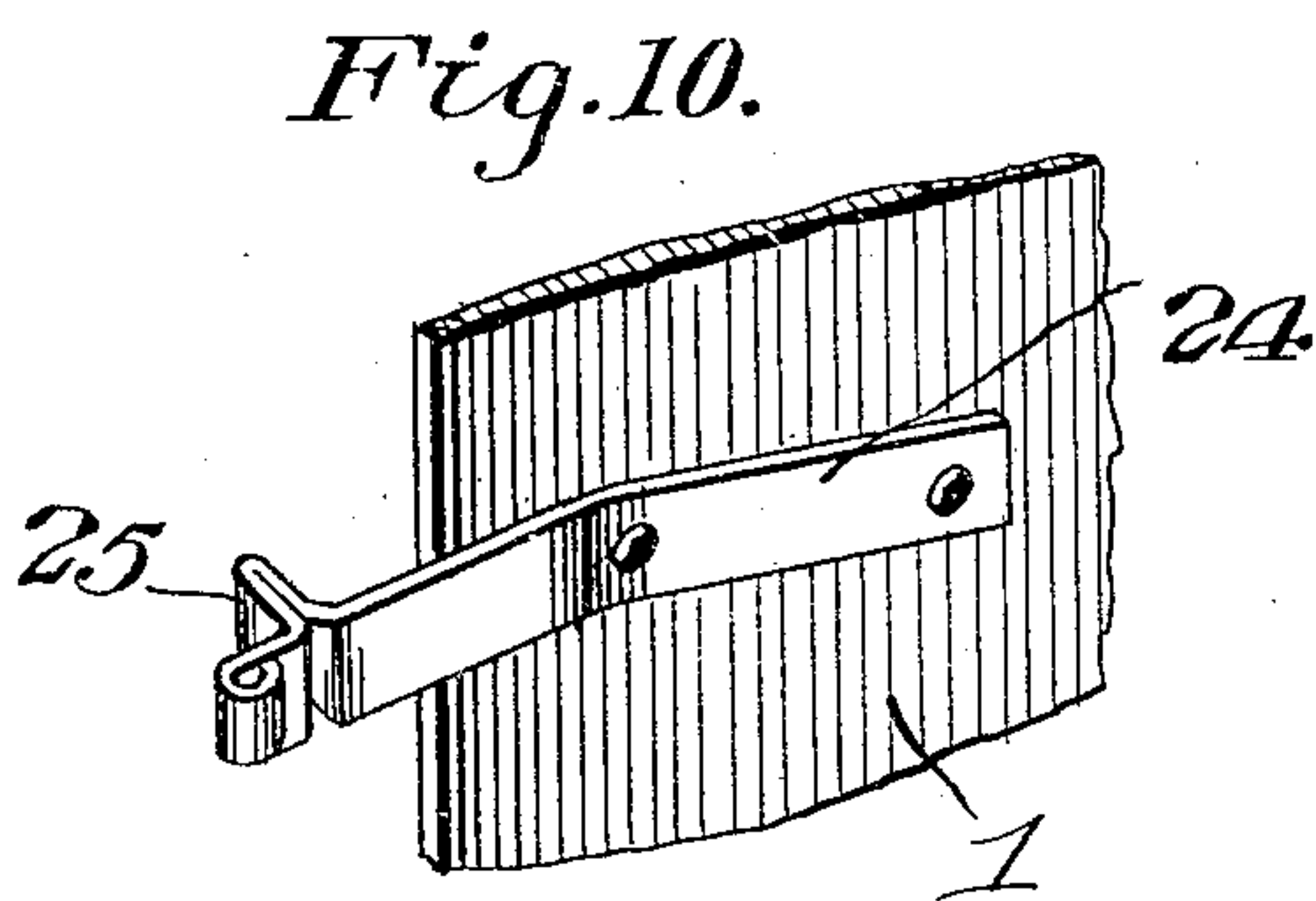
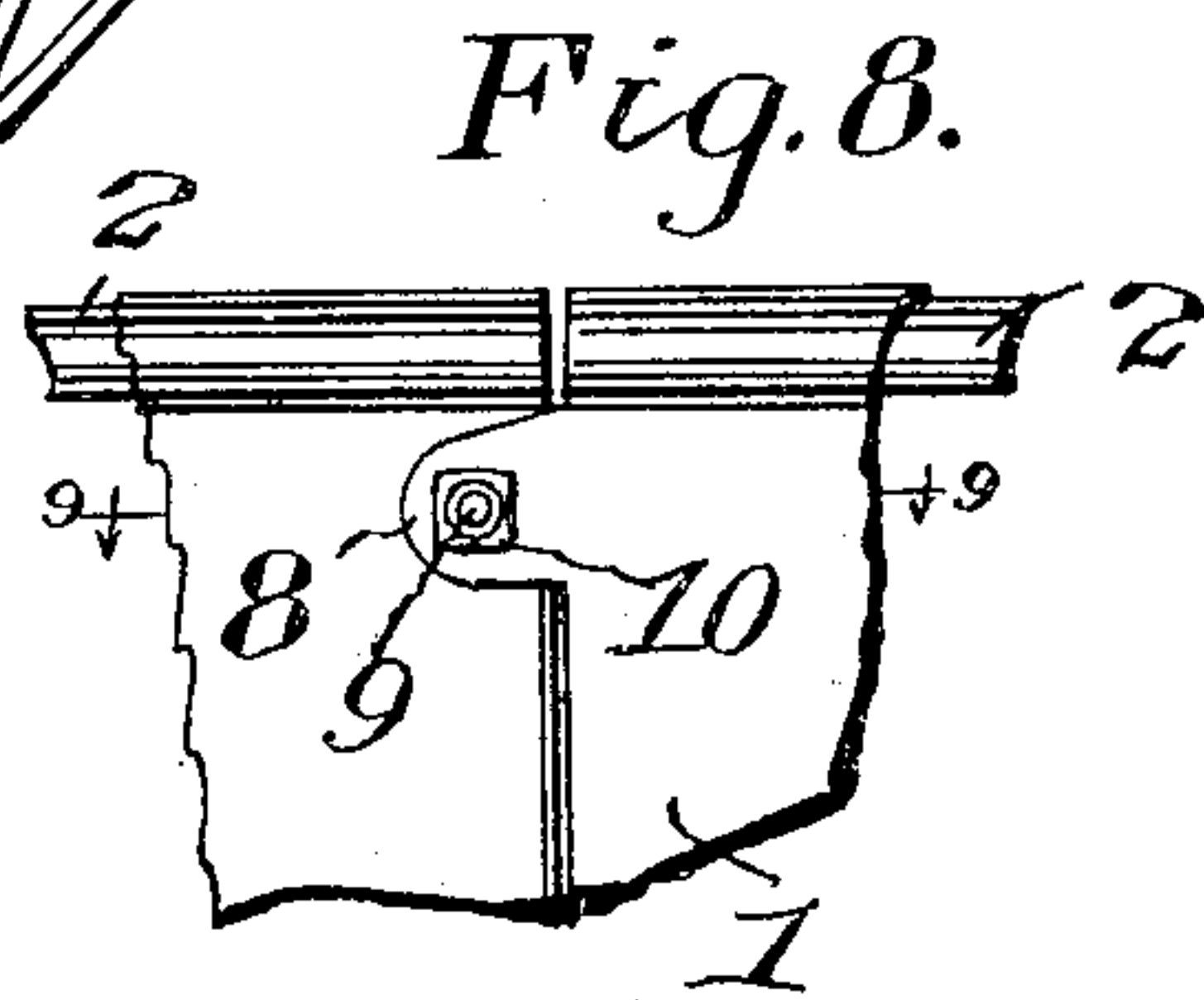
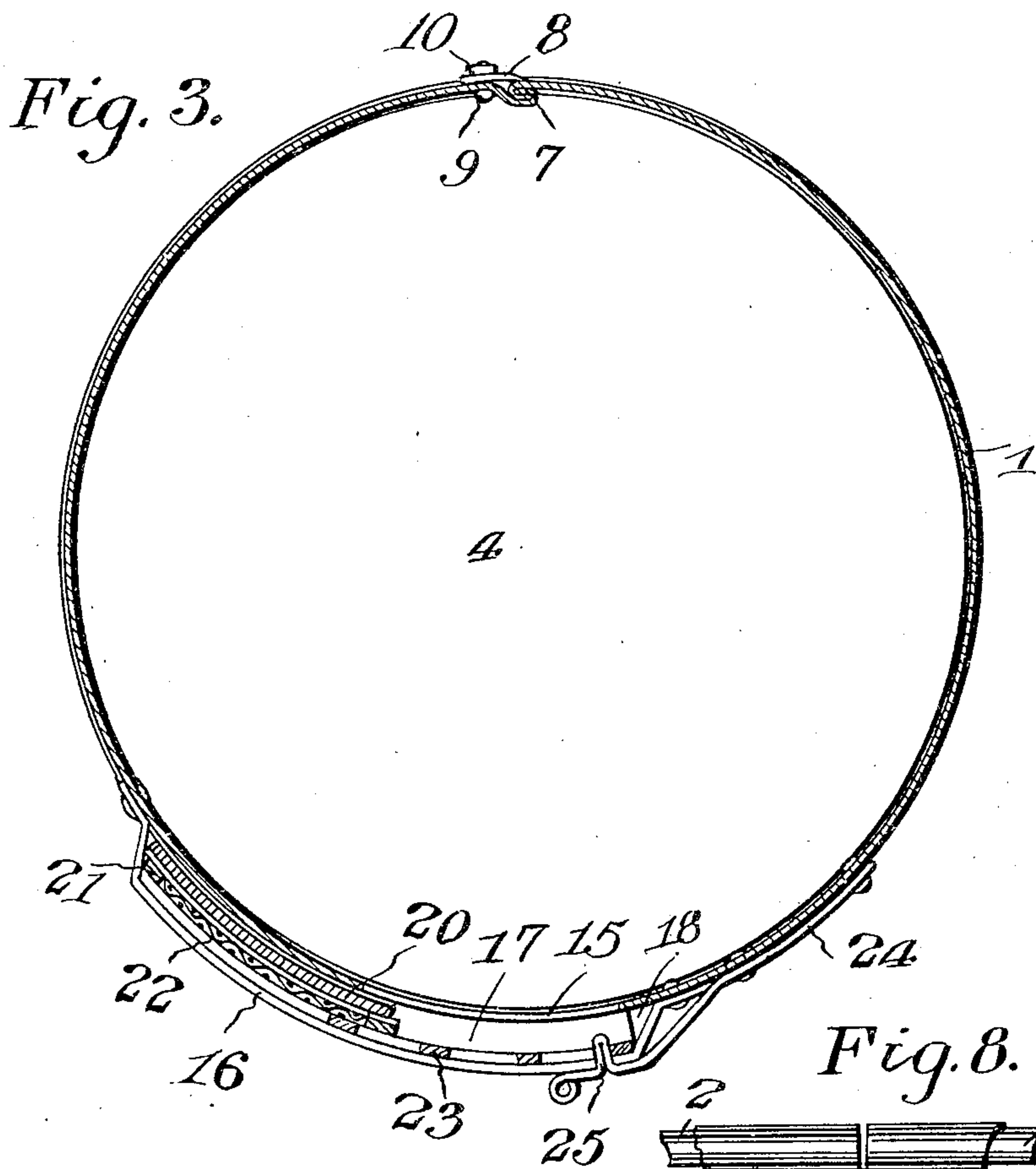
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

HARRY H. GRANT, OF WARSAW, ILLINOIS.

METAL BROODING-COOP.

958,630.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed March 16, 1909. Serial No. 483,703.

To all whom it may concern:

Be it known that I, HARRY H. GRANT, a citizen of the United States, residing at Warsaw, in the county of Hancock and State of Illinois, have invented new and useful Improvements in Metal Brooding-Coops, of which the following is a specification.

This invention relates to poultry brooding coops and one of the principal objects of the same is to provide a sheet metal brooder which can be shipped flat, while the covers may be nested together to occupy but little space.

Another object of the invention is to provide a sheet metal brooder with a conical cover provided with depending spring catches, designed to engage openings in the body of the brooder to suspend the cover above the top of the brooder to permit proper ventilation, or to be closed down tightly upon the top of said brooder when desired.

Another object of the invention is to provide a sheet metal brooder of circular form, said brooder having a detachable bottom and the ends of the metal forming the body portion of the brooder being readily detachable so that a number of said brooders may be shipped in nested form and readily assembled at the point of destination.

Still another object of the invention is to provide a sheet metal brooder having an opening in one side thereof and a guide at opposite sides of said opening for the accommodation of sliding doors, one of said doors being solid to close the opening, another sliding door being made of wire gauze to permit light and ventilation, while a third door is provided which consists of vertical bars connected at the top and bottom by curved bars said door being used to permit the chicks to pass out and in, to and from, the brooder while the mother hen is confined within the brooder.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which:

Figure 1 is a front elevation of a metal brooding coop made in accordance with my invention, the cover being shown adjusted in position to give ventilation to the coop. Fig. 2 is a central vertical section of the coop with the cover removed. Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 1, looking in the direction indicated by the arrows. Fig. 4 is a horizontal sectional view on the line 4—4 of Fig. 1, looking in the

direction indicated by the arrows, the doors of the coop being removed. Fig. 5 is a vertical sectional view of the cover. Fig. 6 is a vertical sectional view of the bottom of the coop. Fig. 7 is a detailed elevation illustrating the manner of connecting ends of the sheet metal for forming the body portion of the coop. Fig. 8 is a detailed side elevation illustrating a modified form of connection for the ends of the sheet metal forming the body of the coop. Fig. 9 is a sectional view on the line 9—9 of Fig. 8. Fig. 10 is a detail perspective view illustrating the spring door latch.

Referring to the drawings the numeral 1 designates the body portion of the brooder which is made of galvanized iron of the required gage and cut from a piece of sheet metal in a single piece; the blank is preferably bent in circular form. The upper edge of the blank is curled around a wire bead 2 while at the bottom the lower edge is curled inwardly around a wire bead 3 said bead serving as a stop for the removable bottom 4. This bottom is of circular form and has its outer edge turned downward as at 5 and is made to fit nicely within the body portion 1. Upon the under surface of the bottom 4 V-shaped sheet metal braces 6 are provided, said braces extending one at right angles to the other and said braces serving to give sufficient strength and stability to a comparatively thin sheet metal bottom.

The meeting edges of the body portion of the brooder are connected by a hook joint as shown in Fig. 3 at 7 and by means of overlapping ears 8 upon one of the ends, which are secured by means of bolts 9 and nuts 10, thus permitting the ends of the body portion to be disconnected for shipping and permitting the connection of the ends readily by an unskilled person.

As shown in Figs. 7 and 9 one end of the sheet metal forming the body portion of the coop may be slitted as at 11 to form a hook portion 12 to engage the hook portion 13 upon the opposite end of the body, and screw-bolts 14 extend through the overlapping ends to firmly hold the body in assembled condition. By removing the bolts 14 the hooks can be readily detached and a number of the coops may be nested for shipping. An opening 15 is formed in the front of the coop; at the lower edges of the opening a curved support 16 is secured, said support having a bottom 17 the ends of which

are cut away as at 18 to permit the ready removal of dirt which may collect at the ends of the doors. A keeper 19 is secured at the upper side of the door opening 15, said
 5 keeper comprising merely a strap of metal properly bent outward and secured at its ends. Sliding doors are mounted upon the support 16 and between the keeper 19 and the body of the coop. One of said doors,
 10 20 is imperforate and is designed for closing the opening 15. One of the doors 21, consists of a rectangular frame having a wire gauze ventilating screen 22 secured thereto, while the other door 23 consists of an ordi-
 15 nary rectangular frame having vertical bars spaced apart sufficiently as to permit the chicks to pass out of the coop without permitting the mother hen to gain an exit. A suitable spring latch 24 is secured to the side
 20 of the coop, said latch having an inwardly extending finger 25 adapted to engage openings on the doors for holding said doors in position when closed but in such a manner that the door engaged by the latch finger will
 25 not interfere with the free movement of the remaining door or doors. Thus, for instance when the door 23 is secured by the latch, as shown in the drawings, it will admit of the passage of the chicks, but this may be ob-
 30 structed at any time without changing the position of the door 23 by moving one of the doors 20 or 21 to an obstructing position.

A cover 26 consists of a single piece of galvanized iron or other sheet metal cut in
 35 circular form and the blank having a piece cut away so as to permit the ends to be brought together and secured to form a conical cover. Secured to the top of the cover is a knob 27; secured to the under side of the
 40 cover is a series of spring supporting latches 28, each provided with an upwardly projecting finger 29 adapted to engage one of a series of recesses 30 formed in the body of the brooder. The supports 28 are secured to
 45 the cover 26 by means of detachable bolts 31.

The operation of the brooder may be briefly described as follows: In shipping the brooder the bottom 4 is removed and the latches 28 may be removed from the cover
 50 26; the knob 27 may also be removed. A number of the covers may be nested together for shipping and the bottoms 4 may be placed under the same. The body portions 1 of the brooder may be placed one over the
 55 other by detaching the meeting edges. When the brooder has been set up and ready for use the cover 26 may be adjusted by engaging the finger 29 in one of the recesses

30 to support the cover above the upper edge of the brooder, thus permitting free ventila- 60
 tion to said brooder. Whenever it is desired to close the brooder, as in cold and inclement weather, the cover may be pushed down to fit tightly over the upper edge. The doors
 may be brought into use whenever required, 65
 the imperforate door being used for closing the coop tightly; the wire gauze door being used when ventilation is required, and the door 23 provided with vertical bars may be
 brought into use when it is desired to permit 70
 the chicks to go out into the open air and sunshine.

From the foregoing it will be obvious that a metal brooding coop made in accordance with my invention is strong and durable; 75
 may be easily packed in duplicate for shipping; can be readily set up for use by any person without special tools; can be readily taken apart for cleaning; and can be manu-
 factured at comparatively low cost. 80

I claim:—

1. In a knock-down metallic brooding coop, a body member consisting of a single sheet of metal having outwardly and in-
 wardly extending reinforcing beads at its 85
 upper and lower edges, respectively, said sheet being bent into circular shape and provided adjacent to its meeting edges with interlocking hook members and with over-
 lapping portions and with fastening mem- 90
 bers extending therethrough in detachable engagement therewith.

2. In a device of the character described, a body member formed of a single sheet bent into circular shape and having its meeting 95
 ends detachably connected together, said body member being provided with a door opening, a flanged supporting member adjacent to the lower edge of the door opening
 having mutilated ends forming openings for 100
 the escape of obstructions, a keeper adjacent to the upper edge of the door opening, a plurality of doors supported at their lower ends upon the supporting member and having
 their upper ends confined within the keeper, 105
 and a spring latch secured upon the body member and having a door-engaging finger whereby one door may be secured without interfering with the movement of the
 remaining doors. 110

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

HARRY H. GRANT.

Witnesses:

ADAM P. BUCKERT,
 C. E. BRINKMAN.