

No. 785,497.

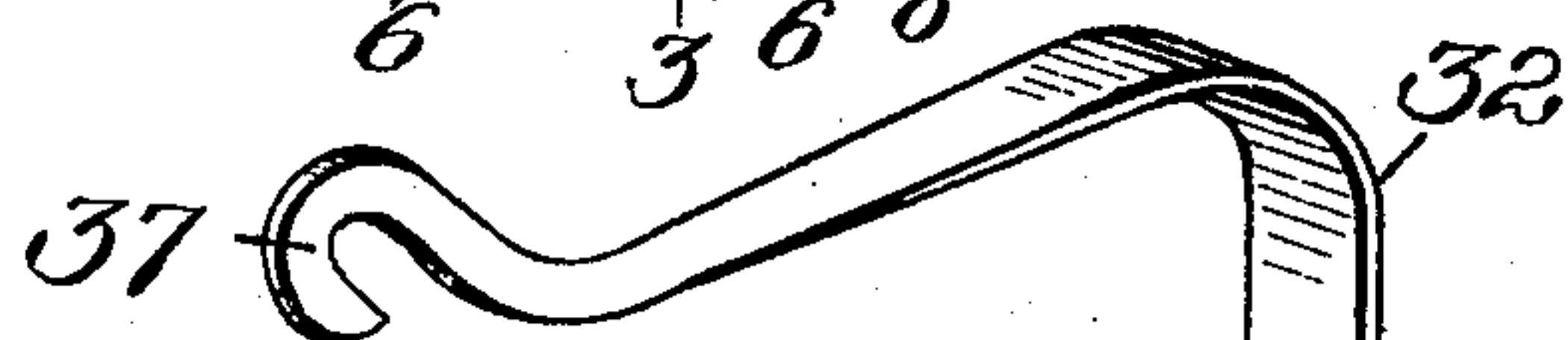
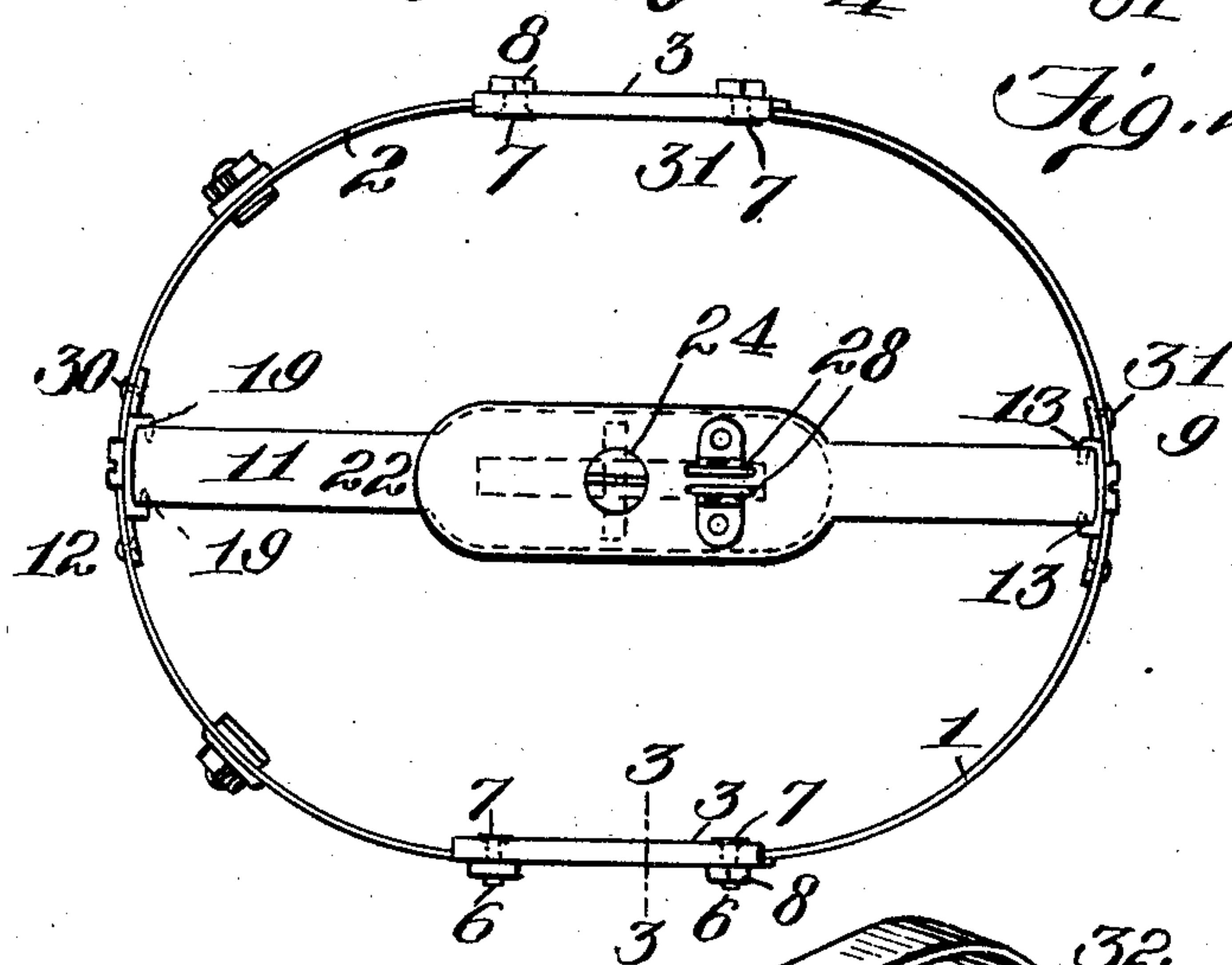
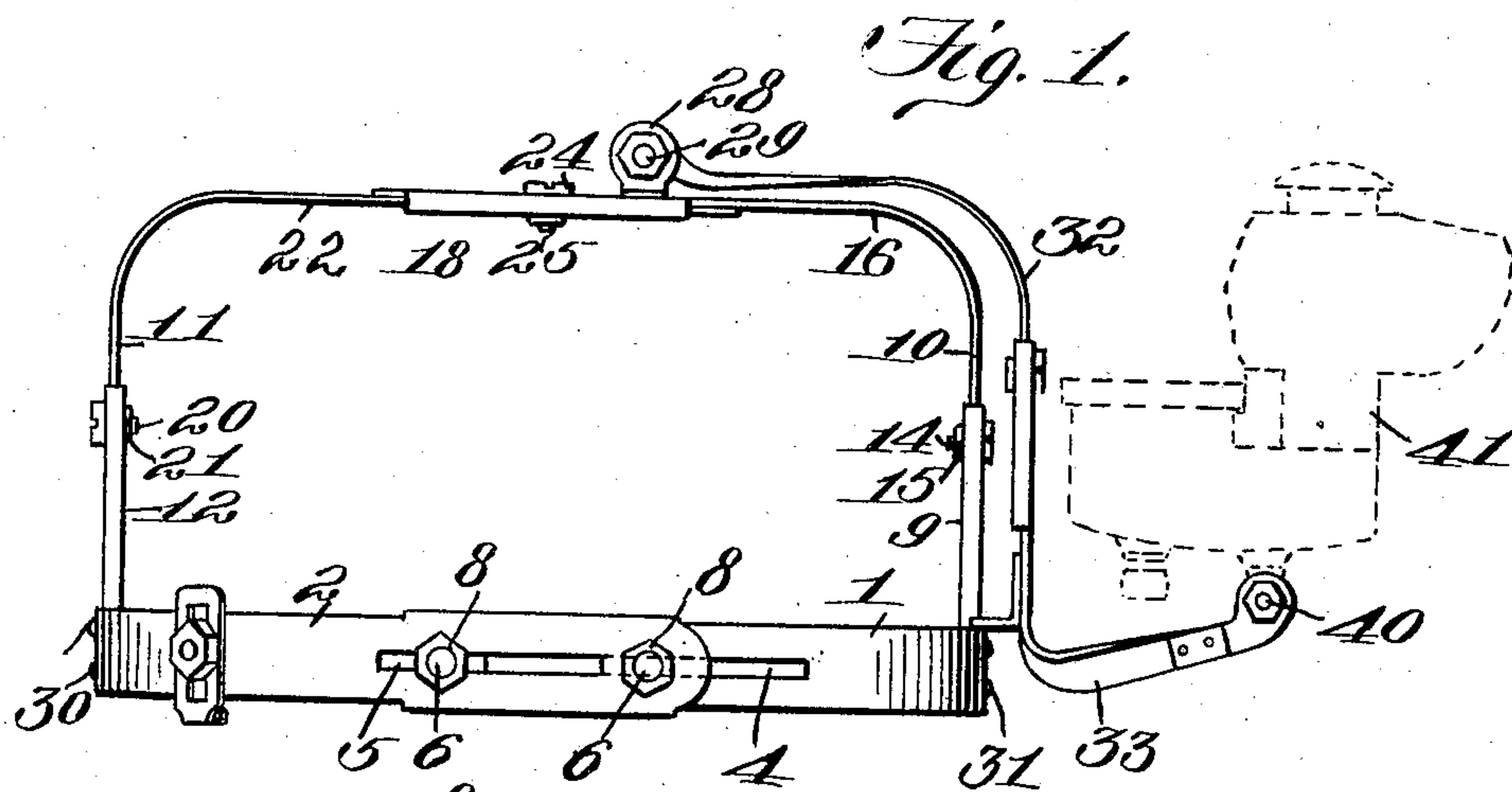
PATENTED MAR. 21, 1905.

C. JOHNSON.

SUPPORTING AND ATTACHING DEVICE FOR LAMPS.

APPLICATION FILED JUNE 15, 1904.

2 SHEETS—SHEET 1.



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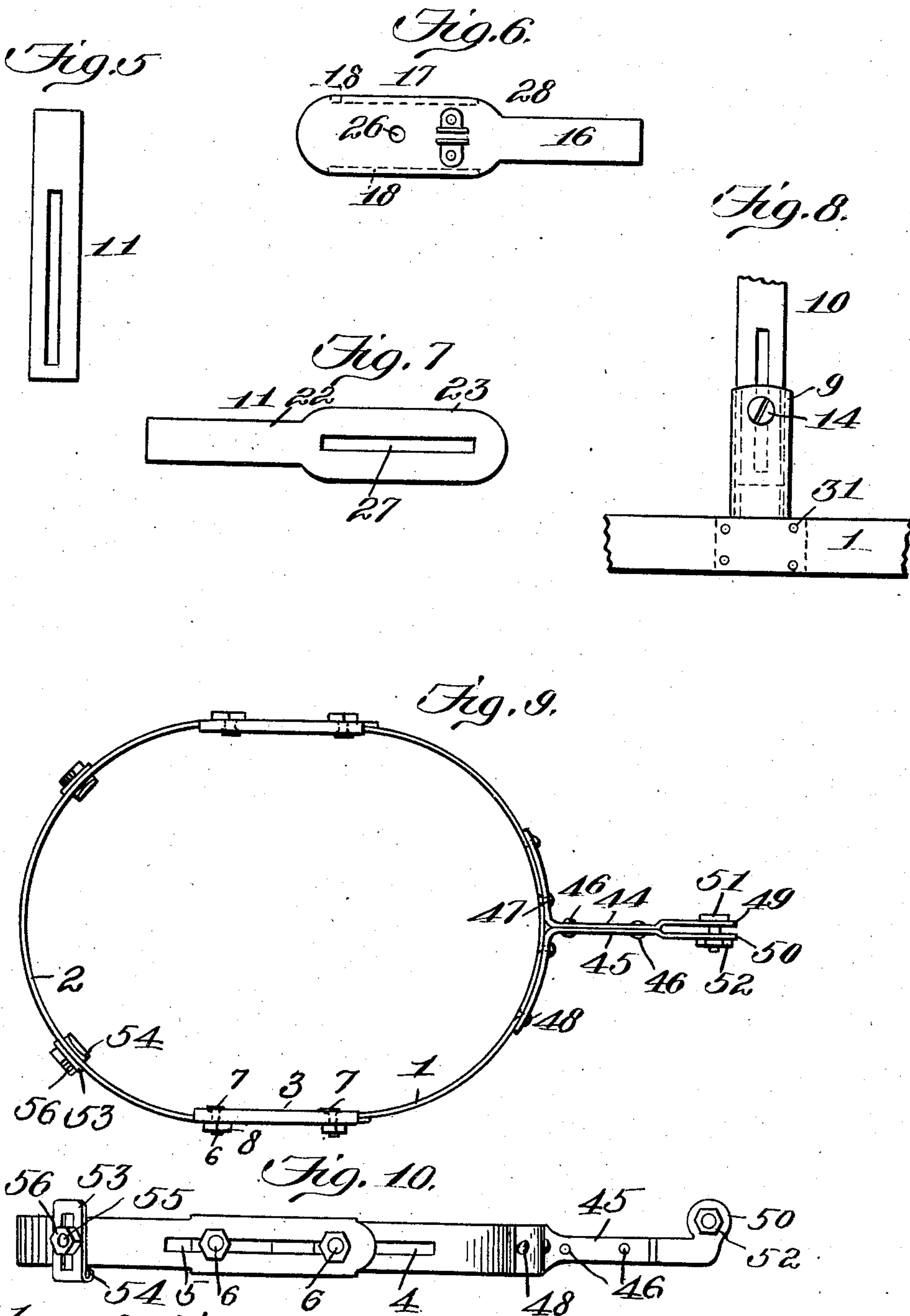
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

CHARLES JOHNSON, OF BUTTE, MONTANA.

SUPPORTING AND ATTACHING DEVICE FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 785,497, dated March 21, 1905.

Application filed June 15, 1904. Serial No. 212,710.

To all whom it may concern:

Be it known that I, CHARLES JOHNSON, a citizen of the United States, residing at Butte, in the county of Silverbow and State of Montana, have invented new and useful Improvements in a Combined Supporting and Attaching Device for Lamps, of which the following is a specification.

This invention relates to certain new and useful improvements in combined supporting and attaching devices adapted for use in supporting or suspending, as well as attaching, a lamp or other object to a suitable support.

The invention primarily aims to provide a supporting device particularly adapted for supporting or suspending a lamp used for bandmen, miners, campaign marching clubs, and is further adapted for supporting or suspending other illuminating devices.

The invention further aims to provide a combined supporting and attaching device which is adjustable, so it can be attached to various-sized objects, caps, or hats, and, further, adjustable vertically, so that the device it is carrying can be elevated or lowered, as occasion requires.

The invention further aims to construct a supporting device for the purpose set forth which shall be extremely simple in its construction, strong, adjustable, durable, efficient in its use, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view the invention consists of the novel combination and arrangement of parts hereinafter more specifically described, illustrated in the accompanying drawings, and particularly pointed out in the claims hereunto appended.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like reference characters indicate corresponding parts throughout the several views, and in which—

Figure 1 is a side elevation of a device constructed in accordance with this invention, showing the lamp and suspension-arm there-

for in dotted lines. Fig. 2 is a top plan view of a device constructed in accordance with this invention. Fig. 3 is a transverse section on line 3 3 of Fig. 2. Fig. 4 is a perspective view of the lamp suspension-arm. Figs. 5, 6, 7, and 8 are details of the supporting-section. Fig. 9 is a top plan view of a modified form of device constructed in accordance with this invention, and Fig. 10 is a longitudinal central section of Fig. 5.

The device shown by Figs. 1 to 8 comprises what may be termed an "attaching-section," a "supporting-section," and a "suspension-section," and, referring to said Figs. 1 to 8 by reference characters, the attaching-section is formed of two semicylindrical flat strips of suitable material 1 2, standing on edge, which when connected together form an adjustable attaching-section of the contour of a band for connecting the supporting device to a suitable object or head-covering. The strips 1 2 may be of different shape, if desired—that is to say, when the strips are connected together the adjustable attaching-section may be square, pentagonal, hexagonal, septangular, or octagonal in contour. The end portions of the strip 1 are adapted to extend into the end portions of the strip 2, and for this purpose the end portions of the strip 2 at their upper and lower edges are provided with inwardly and downwardly extending retaining-flanges 3, forming grooves or channels into which the end portions of the strip 2 extend. (See Fig. 3.) Each of the end portions of the strips 1 2 is provided with a longitudinally-extending elongated slot. The slots in the end portions of the strip 1 are designated by the reference character 4, and the slots in the end portions of the strip 2 are designated by the reference character 5. The slots 4 of the strip 1 are adapted to register with the slots 5 of the strip 2. Extending through the slots 4 of the strip 1 and the slots 5 of the strip 2 are the adjusting-bolts 6, having flat thin elongated heads 7 on their inner ends. That portion of the bolts 6 which extends through the slots 4 5 is square, so that the said bolts will be prevented from turning,

and the outer end of the bolts 6 is cylindrical in contour and provided with screw-threads to receive the clamping-nuts 8. Preferably a pair of bolts is employed for connecting one end portion of the strip 1 to the corresponding end portion of the strip 2; but it is evident that the number of bolts can be increased or diminished, as desired. By constructing the attaching-section in the manner as set forth it is evident that said section can be adjusted to various sizes, as well as be securely attached to a head-covering or other object.

The supporting-section comprises a pair of upwardly and inwardly extending standards, each formed of two sections—an upper and a lower section. The upper and the lower section of one of the standards, which may be termed the “front” standard, are designated by the reference characters 9 10, respectively, and the upper and the lower section of the other or rear standard are designated by the reference characters 11 12. The upper section 10 is adapted to extend into the lower section 9, and for this purpose the section 9 is provided with a pair of rearwardly-extending L-shaped retaining members 13, forming a groove or channel, into which the lower portion of the upper section 10 is adapted to extend. The sections 9 and 10 are adjustably connected together to permit of elevating and lowering the upper section 10, and for this purpose the section 9 is provided with an opening and the section 10 at its lower portion is provided with an elongated slot. This opening and slot are adapted to aline with each other, and through the said opening and slot is adapted to extend an adjusting-bolt 14, carrying on its inner end a clamping-nut 15. The upper section 10 at its upper portion is bent rearwardly, as at 16, and said section 10 has its upper end enlarged, as at 17, and said enlarged end 17 is provided with a pair of depending L-shaped retaining members 18, forming a groove or channel into which is adapted to extend the enlarged upper end of the section 11, to be hereinafter referred to. The upper section 11 is adapted to extend into the lower section 12, and for this purpose the section 12 is provided with a pair of rearwardly-extending L-shaped retaining members 19, forming a groove or channel into which the lower portion of the upper section 11 is adapted to extend. The sections 11 12 are adjustably connected together to permit of the elevating and lowering of the upper section 11, and for this purpose the section 12 is provided with an opening and the section 11 at its lower portion is provided with an elongated slot. This opening and slot are adapted to aline with each other, and through the said opening and slot is adapted to extend an ad-

justing-bolt 20, carrying on its inner end a clamping-nut 21. The section 11 at its upper portion is bent forwardly, as at 22, and said section 11 has its upper end enlarged, as at 23, and said enlarged end 23 is adapted to extend into the groove or channel formed by the retaining member 18. The enlarged ends of the supporting-standards are adjustably connected together through the medium of a bolt 24, carrying on its inner end a clamping-nut 25. The bolt 24 extends through an opening 26, formed in the enlarged end 17 of the section 10 and also through the elongated slot 27, formed in the enlarged end 23 of the section 11. The enlarged ends 17 of the section 10 has fixedly secured thereto, by any suitable form of holdfast devices, a clamping device which can receive a lamp and connect it in position or can receive the suspension-section for the lamp, and said clamping device consists of a pair of jaws 28, carrying a clamping-screw or other suitable means 29 for securing the lamp or suspension-section to said clamping device. The lower end of the section 12 of the rear supporting-standard is fixedly secured to the strip 2 by rivets 30, or any other suitable means may be employed for this purpose. The lower end of the section 9 of the front supporting-standard is secured to the strip 1 by the rivets 31, or other suitable means may be employed for this purpose.

The suspension-section consists of a suspension-arm formed of an upper and a lower section 32 33, respectively. The lower section 33 is provided with a pair of rearwardly-extending L-shaped retaining members 34, forming a groove or channel into which extends the lower portion of the upper section 32. The sections 32 and 33 are adjustably connected together, and for this purpose the section 32 is provided with an elongated slot and the section 33 with an opening, and through the opening and slot is adapted to extend an adjusting-screw 35, carrying on its inner end a clamping-nut 36. The upper section 32 has a portion of its length extending in a vertical manner and the remaining portion bent at an angle with respect to said vertical portion, and said angular portion of the section 32 terminates in a hook 37, which is adapted to be mounted upon the bolt 29 and clamped between the jaws 28, thereby securing the suspension-arm in position. The upper portion of the section 33 extends in a vertical manner, and the lower portion thereof extends outwardly at an angle with respect to said vertical portion and has secured thereto, through the medium of the holdfast devices 38, a pair of jaws 39, carrying a clamping-screw 40. The jaws 39 are adapted to connect the lamp or other suitable illuminating device with the suspension-

arm. The lamp is indicated by the reference character 41. The section 33 has secured to its inner face a rearwardly-extending supporting member 42, which is adapted to rest upon the strip 1, and said member 42 terminates in a hook 43, which engages the back of the strip 1, thereby preventing the moving forward of the suspension-arm when carrying the lamp.

In the modified construction shown in Figs. 9 and 10 the same consists of an attaching-section and a suspension-section. The attaching-section is the same in construction as the attaching-section shown in Figs. 1 and 2, and the same reference characters are applied thereto. The suspension-section consists of a pair of arms 44 45, which are secured together a portion of their length by the holdfast devices 46, and the said arm 44 has its inner end secured to the strip 1 through the medium of the holdfast devices 47, and said arm 45 has its inner end secured to the strip 1 through the medium of the holdfast devices 48. The outer portions of the arms 44 45 are disconnected from each other, so as to form a pair of clamping-jaws 49 50, said jaws 49 50 carrying a bolt 51, provided with a clamping-nut 52. The jaws 49 50, in connection with the bolt 51 and nut 52, are adapted to secure to the attaching-section a lamp or other suitable illuminating device.

The attaching-sections are each provided with a plurality of connecting devices for connecting said attaching-section to a hat-band or the lower edge of a cap, and said connecting devices each consists of a slotted member 53, terminating at its lower end in a hook 54, which is adapted to engage around the hat-band or the lower edge of a cap, and said slotted member 53 is adjustable vertically, owing to its slot formation, and is retained in position through the means of a bolt 55, extending through said member and through the strips 1 and 2 or through the strip 2 or through the strip 1, and for this purpose the strips are provided with openings to permit of the bolts 55 extending therethrough, and said bolts 55 carry on their outer ends the clamping-nuts 56.

The adjustable support and attaching device is preferably constructed of aluminium, although other material can be employed, if desired; but when aluminium is employed the structure is extremely light, at the same time being of the necessary strength to support the lamp or other suitable device.

It is thought the many advantages of my improved supporting and attaching device for lamps or other objects can be readily understood from the foregoing description, taken in connection with the accompanying drawings, and it will furthermore be evident

that changes, variations, and modifications can be resorted to without departing from the spirit of the invention or sacrificing any of its advantages, and I therefore do not wish to restrict myself to the details of construction hereinbefore described and as shown in the accompanying drawings, but reserve the right to make such changes, variations, and modifications as come properly within the scope of the protection prayed.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the character described, a pair of strips forming a band, a clamp for adjustably connecting said strips together, a pair of sectional standards fixed at one end to said strips and adapted to have the sections thereof extend into one another, a clamp for adjustably connecting the sections of each standard together, the upper end of the upper section of each of said standards enlarged, a clamp for adjustably connecting the enlarged ends of said sections together, and means for adjustably connecting an illuminating device with the enlarged upper end of said standards.

2. In a device of the character described, a pair of strips forming a band, a clamp for adjustably connecting said strips together, a pair of sectional standards secured at their lower ends with said strips and each adapted to have the sections thereof extend into one another, a clamp for adjustably connecting the sections of each of the sections together, a clamp carried by one of the standards, a sectional suspension-arm adapted to be connected with said standards by said clamping device, the sections of said suspension-arm adapted to extend into one another, a clamp for adjustably connecting the sections of the suspension-arm together, and a clamping device carried by one of the sections of said suspension-arm and adapted to secure an illuminating device thereto.

3. In a device of the character described, a pair of strips forming a band, a clamp for adjustably connecting said strips together, a pair of sectional standards fixed at one end to said strips and adapted to have the sections thereof extend into one another, a clamp for adjustably connecting the sections of each standard together, the upper end of the upper section of each of said standards enlarged, a clamp for adjustably connecting the enlarged ends of said sections together, means for adjustably connecting an illuminating device with the enlarged upper end of said standards, and a plurality of attaching devices carried by said band for connecting it to a head-covering.

4. A device of the character described, involving a pair of strips forming a band,

clamps for adjustably connecting said strips together, a suspension member for an illuminating device connected with said band, a clamp carried by said member for securing
5 an illuminating device thereto, and a plurality of attaching devices carried by the band and adapted to connect said band with a head-covering.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES JOHNSON.

Witnesses:

CHARLES GERKEN,
C. TAYLOR.