

No. 696,912.

Patented Apr. 1, 1902.

C. J. ROSS.  
HOSE SUPPORTER.

(Application filed May 24, 1897.)

(No Model.)

Fig. 1.

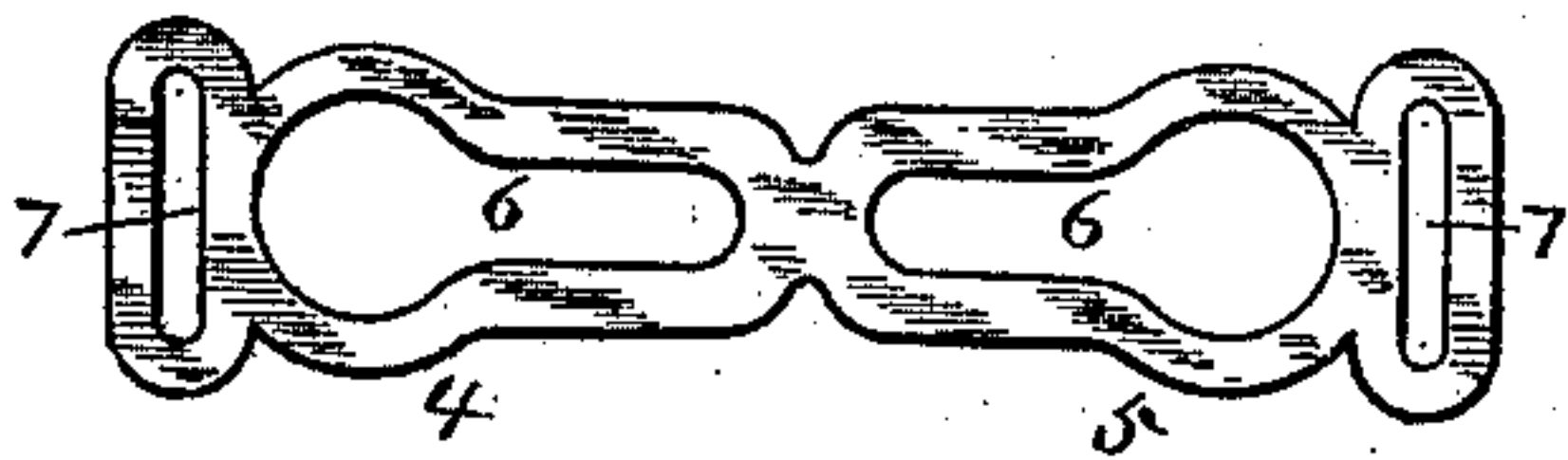


Fig. 2.

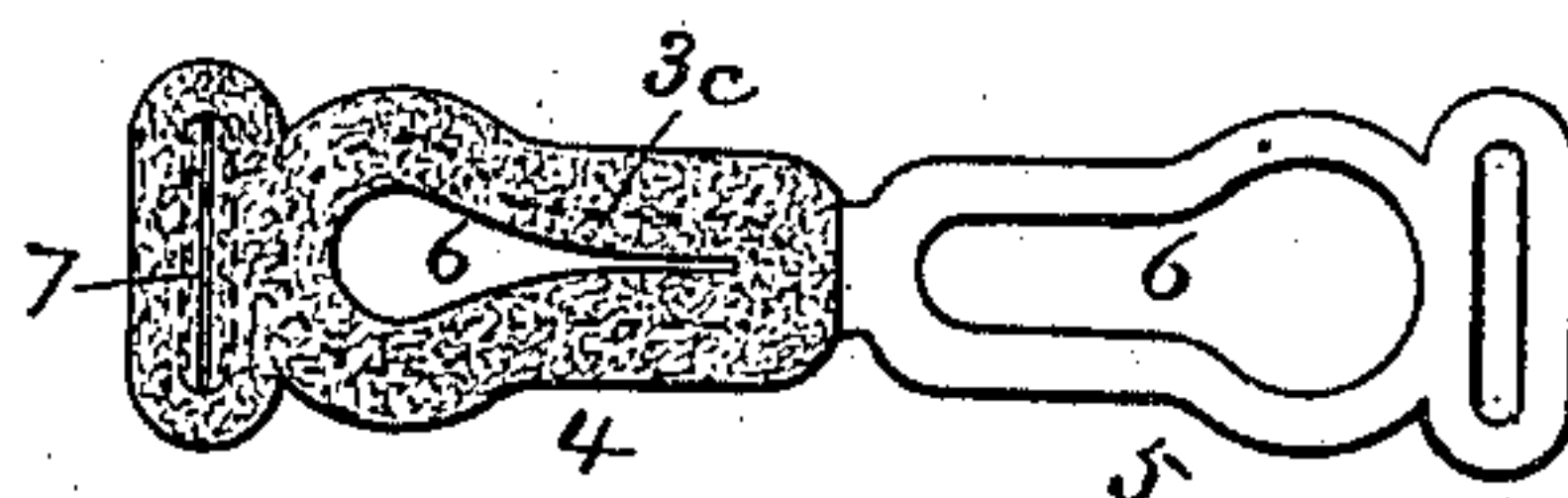


Fig. 3.

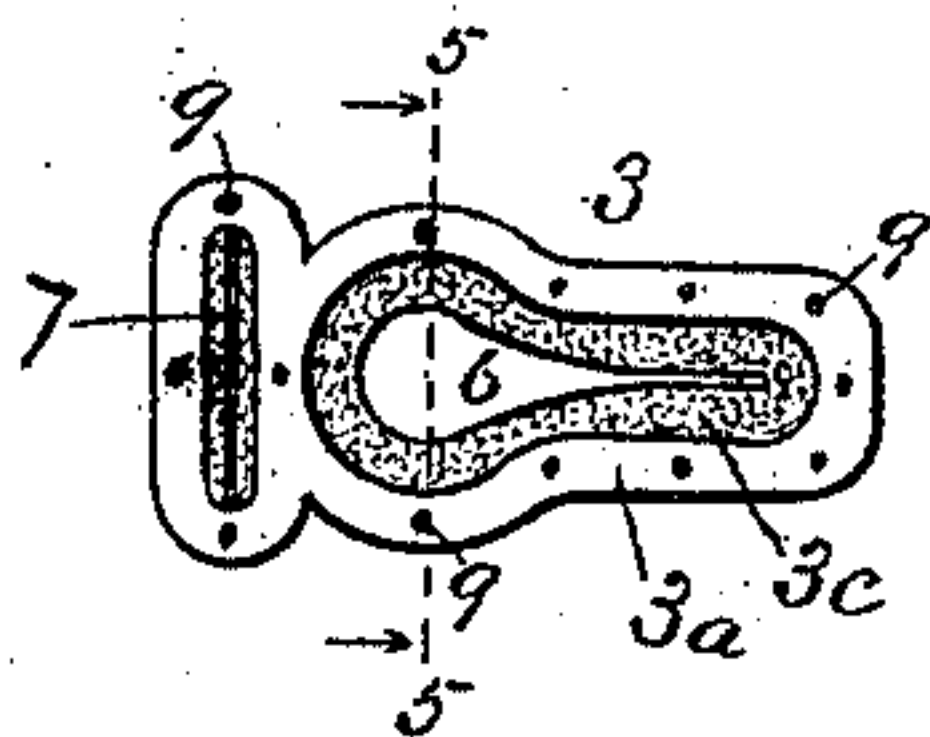


Fig. 4.

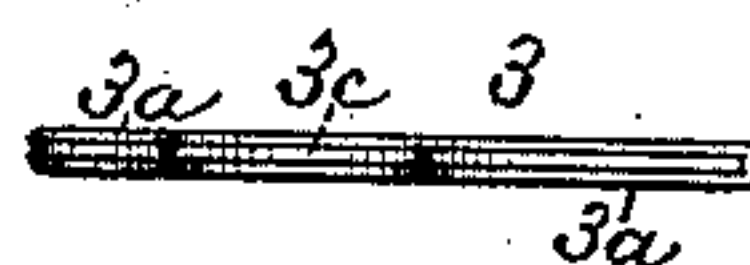


Fig. 5.



Fig. 6.

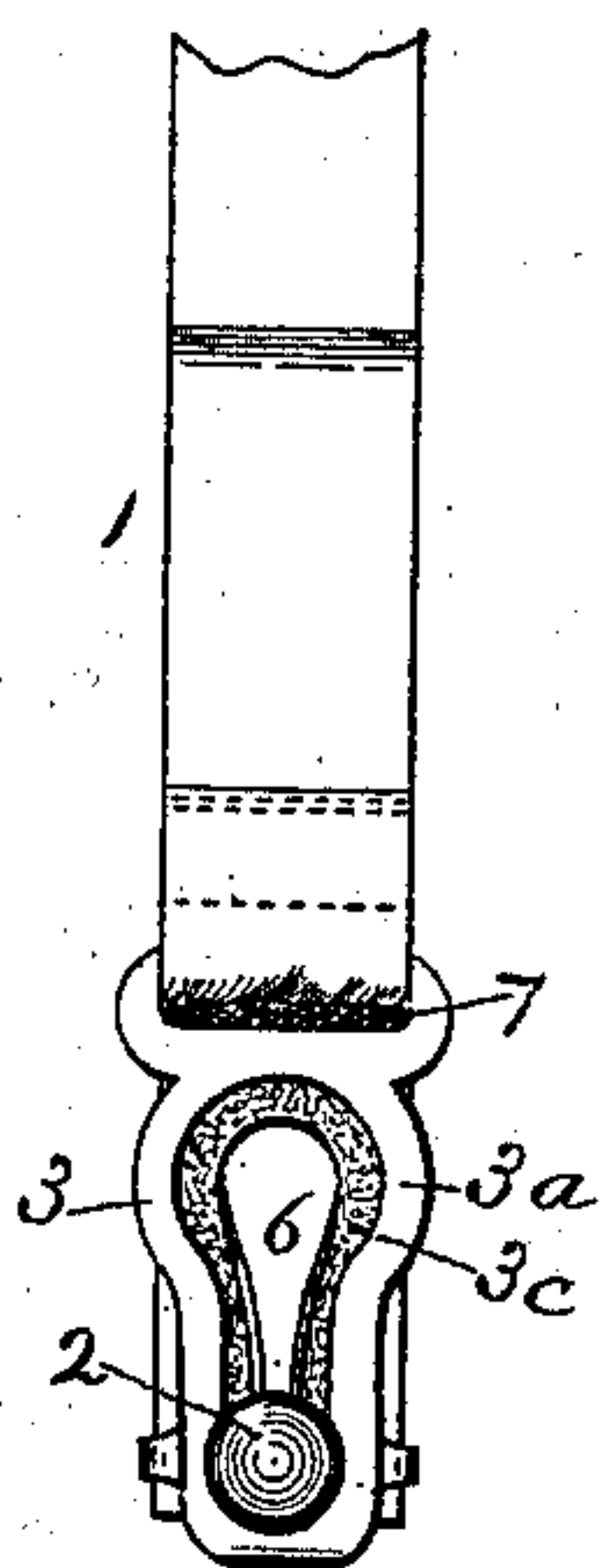


Fig. 7.

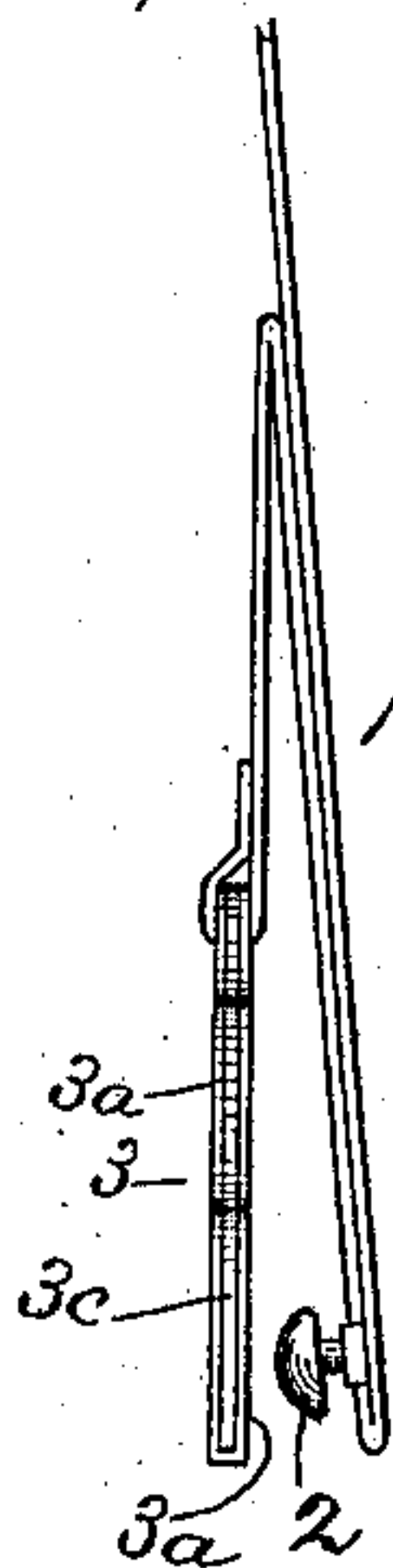


Fig. 8.

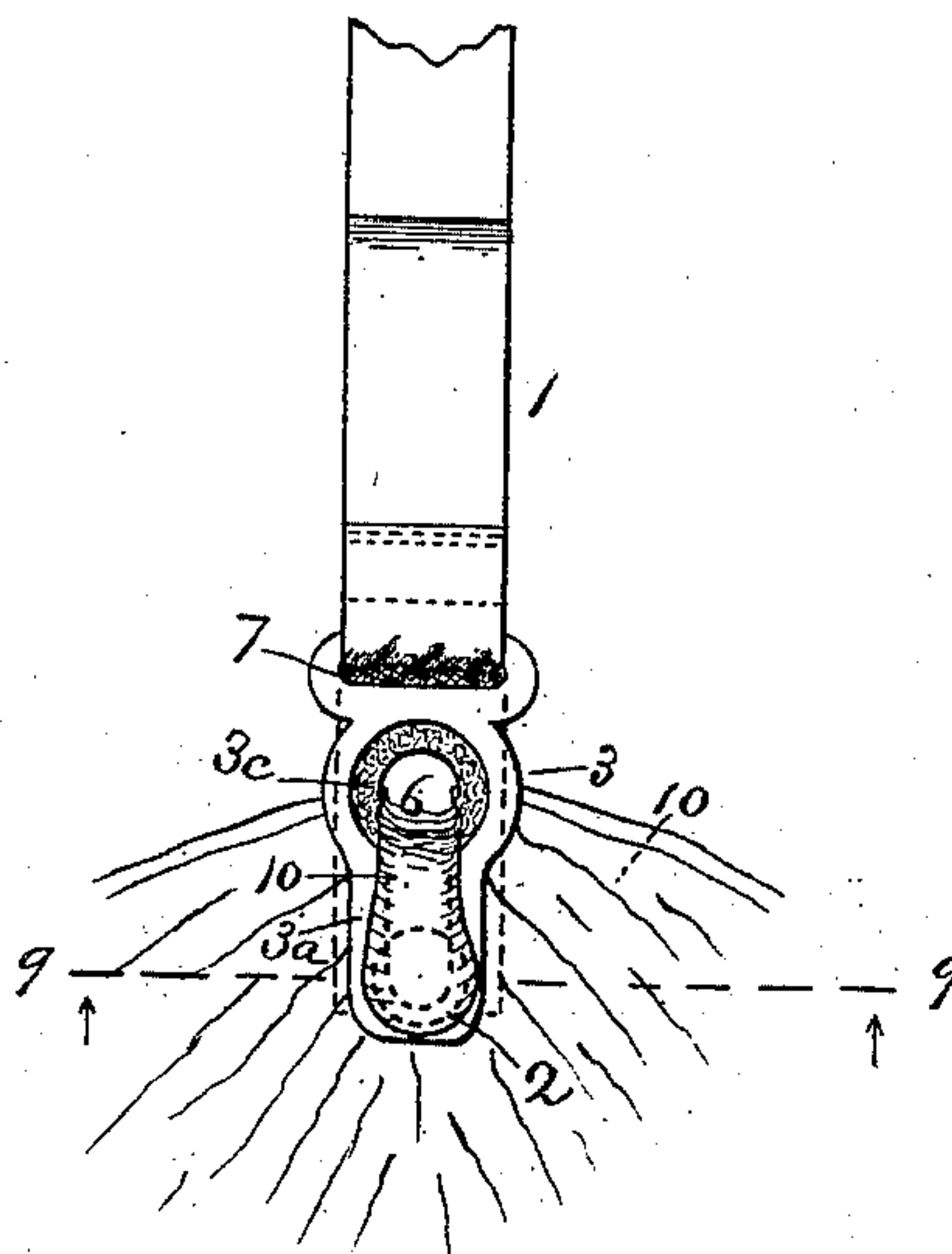
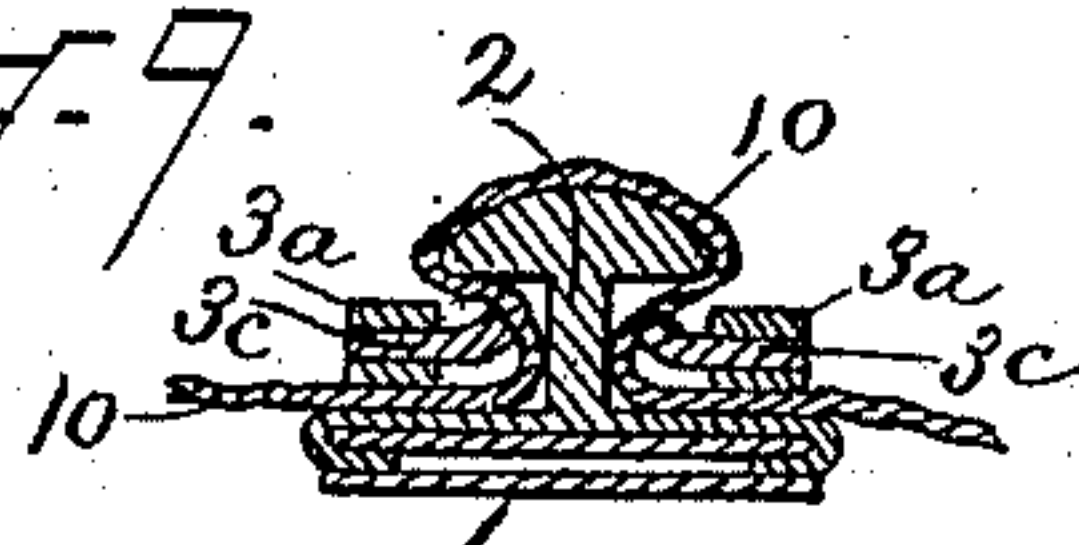


Fig. 9.



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Atty.



# UNITED STATES PATENT OFFICE.

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## HOSE-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 696,912, dated April 1, 1902.

Application filed May 24, 1897. Serial No. 637,950. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES J. ROSS, a citizen of the United States, residing at Galesburg, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Hose-Supporters, of which the following is a specification.

The subject-matter of this invention is an improvement in hose or stocking supporters of that type in which an elastic strap or piece of webbing, secured at its upper end to some part of the garments of the wearer, is provided at its lower end with branches which carry loops and other branches which carry retaining buttons or studs, which buttons or studs are each utilized to press a portion of the upper part of the hose into and through one of the loops for the purpose of connecting the supporter with the hose for sustaining the hose in position until such time as it is desired to release it. In the use of this type of supporters as heretofore constructed the retaining button or stud is moved or slid in the loop or the loop slid on the button or stud, both to engage the hose therewith and to disengage it therefrom, and the button or stud and the loop also frequently slide back and forth and otherwise move with respect to each other by the motions of the lower limbs of the wearer, and these slidable and other movements by abrasion of the part of the hose between the rigid edges of the loop and the button or stud, especially at the lower narrow end of the loop, where the button-shank rests in use, will rapidly wear away the abraded part of the hose even when the edges of the metallic or other rigid loops are rounded and thickened or such rounded parts covered with rubber, which very soon hardens in use.

The leading object of my invention is to provide means for protecting the hose from such abrasion and friction consequent upon the proximity of the retaining button or stud to the edges of the metallic or other rigid loop and consequent upon the slidable or other action between the two in the act of connecting and disconnecting the button from the loop, and thereby connecting or disconnecting the hose from said parts, and which means will also prevent the button or stud and the loop from sliding back and forth with respect to

each other by flexure of the lower limbs of the wearer, and thereby not only abrading and wearing the hose, but sometimes releasing the button or stud from the loop, and which means will especially protect the hose at the lower and narrow end of the loop, where the button remains while in use.

To the end of carrying out this leading object of my invention it consists in its most essential feature in a soft yielding antifriction member or shield fixed to the rigid or metallic part of the loop so as to project therefrom edgewise and to be interposed between the sides or edges of said loop and the retaining button or stud in such manner that it will prevent substantially all frictional or abrasive contact between the metallic or rigid edges of said loop and the hose when sliding said button or stud into position or out of position in said loop and will prevent any slidable movements of the button or loop with respect to each other and which arise from flexure or other movements of the lower limbs of the wearer or from other accidental causes and will prevent wear of the hose at the lower narrow end of the loop, where such wear has heretofore been the greatest.

The invention further consists in peculiarities of construction and combinations of parts hereinafter fully described.

These main features of my invention, as also the subsidiary features referred to, are made the subject-matter of claims hereto appended.

Part of a hose-supporter embodying the preferred structural peculiarities of the different parts, the preferred disposition of said parts, and the combinations forming the subject-matter of my improvements are illustrated in the accompanying drawings, in which—

Figure 1 is a plan of the blank from which the loop is formed, shown in the form in which it is stamped from sheet metal; Fig. 2, a plan of the blank shown at Fig. 1, with the shield as placed thereon preliminary to folding the blank; Fig. 3, a side elevation of the completed loop as formed by the folded blank with the shield in place; Fig. 4, an edge elevation of the loop with the shield in place; Fig. 5, an enlarged sectional elevation of the



completed loop in line 5 5 in Fig. 3; Fig. 6, a side elevation of the completed loop or loop and shield in connection with parts of an ordinary hose-supporter, with the button or stud shown as engaged with the loop; Fig. 7, an edge elevation of the parts shown at Fig. 6, with the button or stud shown as disengaged from the loop. Fig. 8 is same side elevation as Fig. 6, but shows a fragment of a hose engaged between the button or stud and the loop; Fig. 9, a sectional plan in the line 9 9 in Fig. 6.

In the drawings I have shown so much of an ordinary hose-supporter as is necessary to illustrate the embodiment of my improvement therewith. The strap or webbing 1, folded as shown and having the button or stud 2 mounted at the lower end of its folded part and a loop with a wide upper end part and a narrow or contracted lower end part secured to its lower end part, is a common construction, as shown in Letters Patent No. 226,681 to C. C. Shelby, issued April 20, 1880. The Shelby patent also shows a loop of substantially the same contour as the metallic part of my loop after it is folded, and the button or stud of said patent operates with the loop in substantially the same manner as mine in so far as being engaged therewith and with the hose and disengaged therefrom is concerned.

The loop 3 of my improvement comprises in the present instance a metallic part 3<sup>a</sup> and a shield or hose-protecting part 3<sup>c</sup>, of chamois-leather, common leather, or like softly pliable and yielding material not liable to harden in usage, projecting edgewise therefrom. The metallic part 3<sup>a</sup> of the loop as preferably formed consists of a blank having two end parts or sections 4 5 of the same form and construction and each having the ordinary slot 6, with an enlarged end part and a contracted end part, and having also a transverse slot 7. The flat shield or protector 3<sup>c</sup> is of substantially the same form as one of the sections 4 or 5, except that the central slot or opening there-through is smaller than but conforming in outline to the openings or slots through said sections or end parts. The shield 3<sup>c</sup> being placed on one of the sections or end parts 4 or 5, Fig. 2, the other section is then folded or turned over thereonto, as shown at Figs. 3 and 4. The shield, as shown, is fixed firmly in place to the metallic part of the loop and is held against lateral displacement in either direction by indents 9, Fig. 5, made in one of the parts 4 or 5 with any suitable tool and which extend into the shield. It may be secured thereto by cementing or in any other preferred manner. Constructed as described the inner edges of the shield project edgewise inwardly beyond the inner edges of the different slots in the metallic part of the loop, and being formed of pliable yielding material when the button or stud 2 is inserted through the enlarged end of the slot 6 and thence moved downwardly into the narrow part of

said slot its shank or standard will press the edges of the shield outwardly, partly from the soft yielding nature of the material of the shield and partly from its pliable nature, allowing its projecting edges to curve, as shown best at Figs. 6 and 9. At Fig. 9 the hose or stocking 10 by a fragment thereof is shown as interposed between the button or stud and the edges of the shield at the lower and contracted end of the loop, where the hose is subjected to the greatest abrasion, and it will be seen from this figure of the drawings that the shield will act as a complete protector against abrasion of the hose, especially at this place in the loop, both between the button-standard and the metallic part of the loop and also between the metallic part of the loop and the flange or head of the button. While the confronting projecting edges of the shield at the lower contracted end of the loop clasp the hose between them and the button or stud with sufficient force to prevent any sliding action between them and the hose or between the hose and the button or stud arising from flexure of the joints of the lower limbs of the wearer or arising from any ordinary accidental causes, such clasp-force action is not sufficient to interfere at all with sliding the button into the position shown at Figs. 8 and 9 in engaging it with the hose nor in sliding it back to disengage it. The edges of the shield, projecting, as they do, into the transverse slot 7, serve as a protection against abrasion and wear for the loop of the webbing which passes therethrough.

I have shown that mode of carrying out my invention which I have thus far found the most practical and which is well adapted for the purpose; but I do not desire to be confined to the same, as it is obvious that the details may be varied without departure from the essentials of the invention.

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

1. In hose-supporters, the combination with the webbing, of a metal loop having a contracted end portion and an engaging button each secured to said webbing, whereby the hose is held by said button in the contracted end of said loop, said loop being formed of a folded sheet-metal blank having sections with coincident openings therein, and a flat blank, of uniform thickness and of soft, flexible material, interposed between said folded sections and having a central opening smaller than but conforming in outline to the openings in said sections, said metal loop being provided with means for preventing the lateral displacement in either direction of said flexible blank, substantially as described.

2. In hose-supporters, the combination with the webbing, of a metal loop having a contracted end portion and an engaging button each secured to said webbing, whereby the hose is held by said button in the contracted end of said loop, said loop being formed of a



folded sheet-metal blank having sections with coincident openings therein, and a flat blank, of uniform thickness and of soft, flexible material, interposed between said folded sections 5 and having a central opening smaller than but conforming in outline to the openings in said sections, the metal of said loop being indented or crimped to prevent the lateral displacement in either direction of said flexible 10 blank, substantially as described.

3. In hose-supporters, the combination with the webbing, of a metal loop having a contracted end portion and an engaging button each secured to said webbing, whereby the hose 15 is held by said button in the contracted end of said loop, said loop having an elongated transverse opening at the larger end and being formed of a folded sheet-metal blank having

symmetrical sections connected at the contracted end and with coincident openings 20 therein, and a flat blank, of uniform thickness and of soft, flexible material, interposed between said folded sections and having a central opening smaller than but conforming 25 in outline to the openings in said sections, said metal loop being provided with means for preventing the lateral displacement in either direction of said flexible blank, substantially as described.

In testimony whereof I affix my signature 30 in presence of two witnesses.

CHARLES J. ROSS.

Witnesses:

B. F. HOLCOMB,  
HARRY M. RICHARDS.