

No. 842,067.

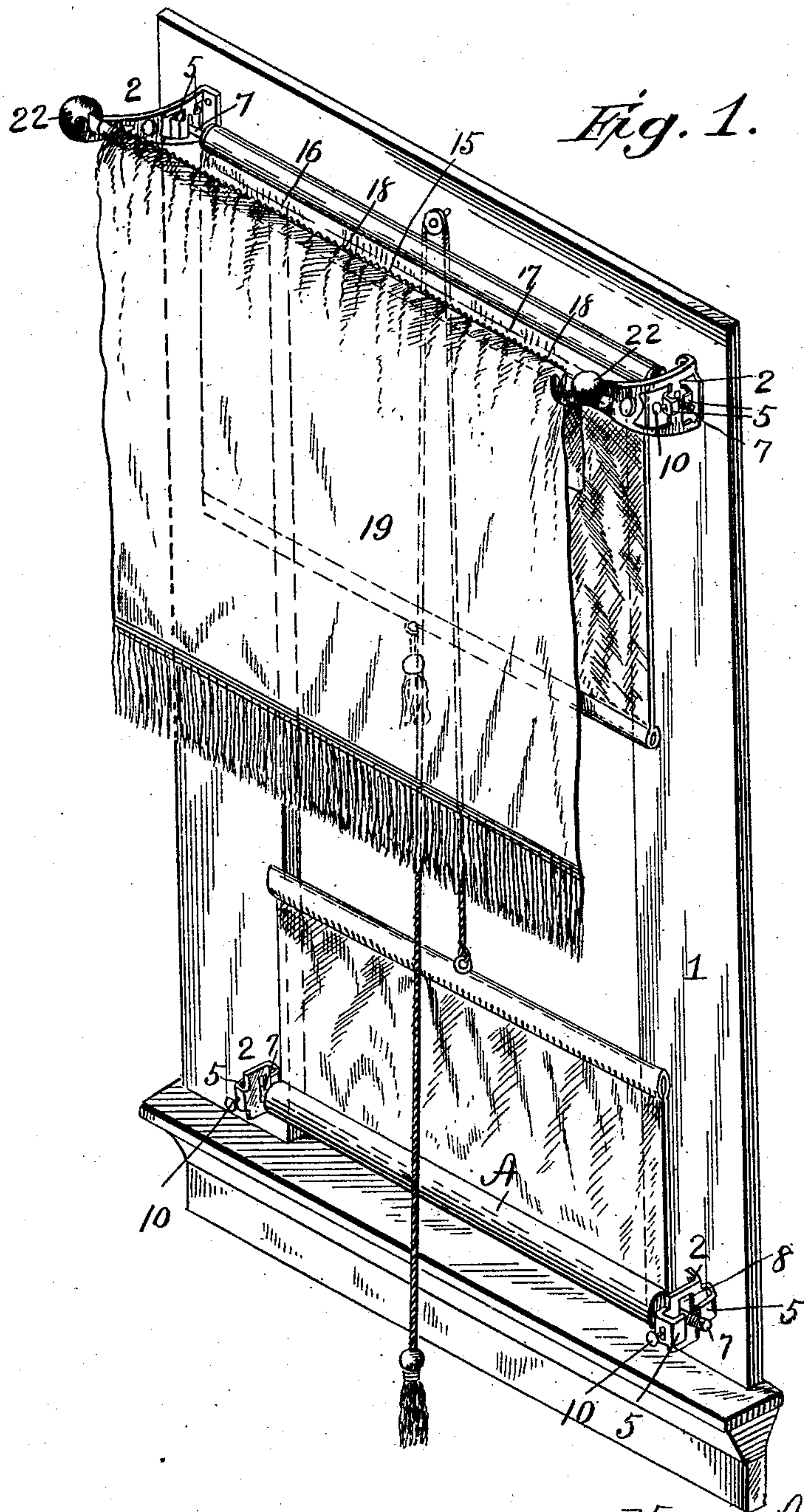
PATENTED JAN. 22, 1907.

H. A. BIERLEY.

COMBINED SHADE ROLL BRACKET AND CURTAIN POLE SUPPORT.

APPLICATION FILED SEPT. 17, 1906.

3 SHEETS—SHEET 1.



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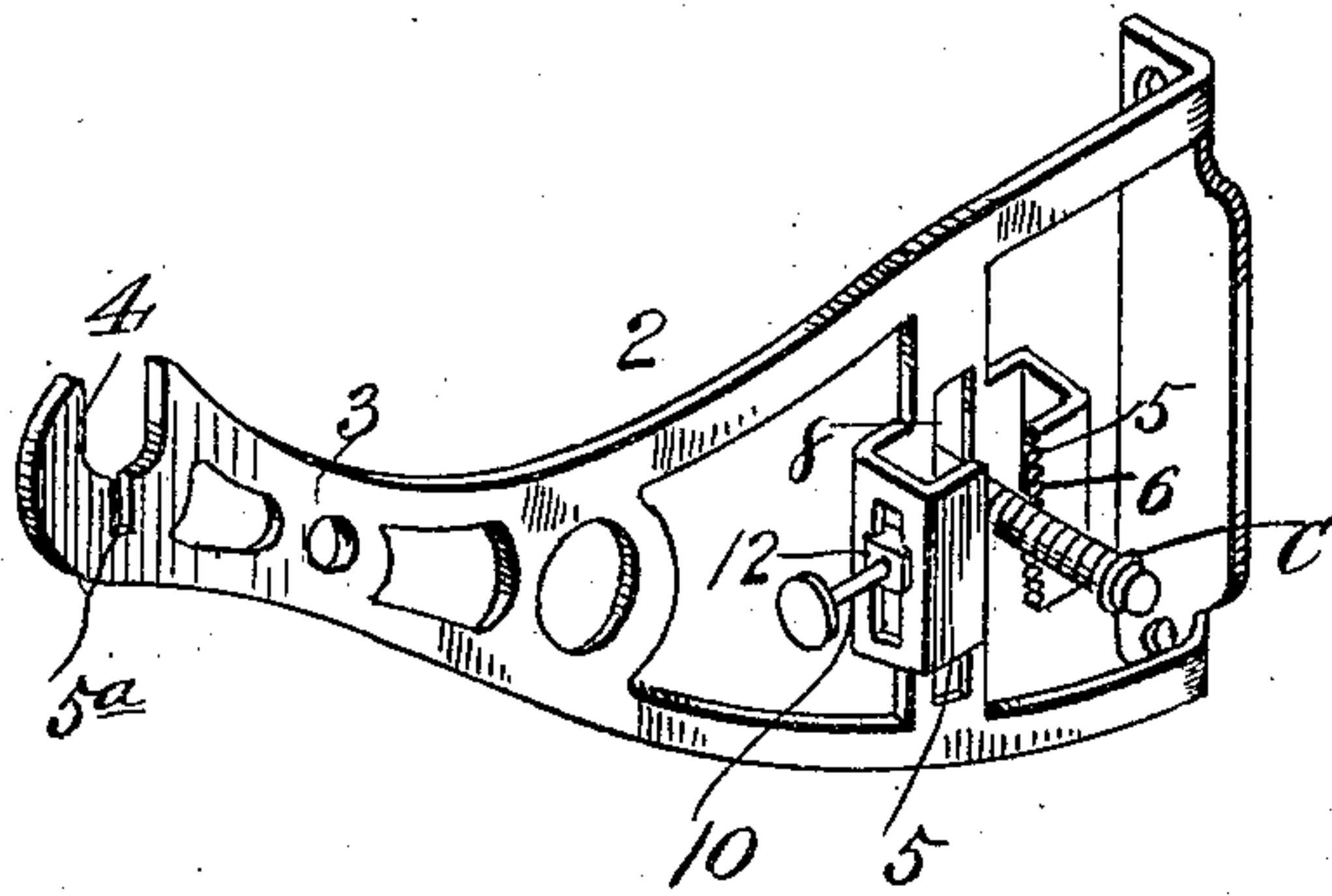


Fig. 2.

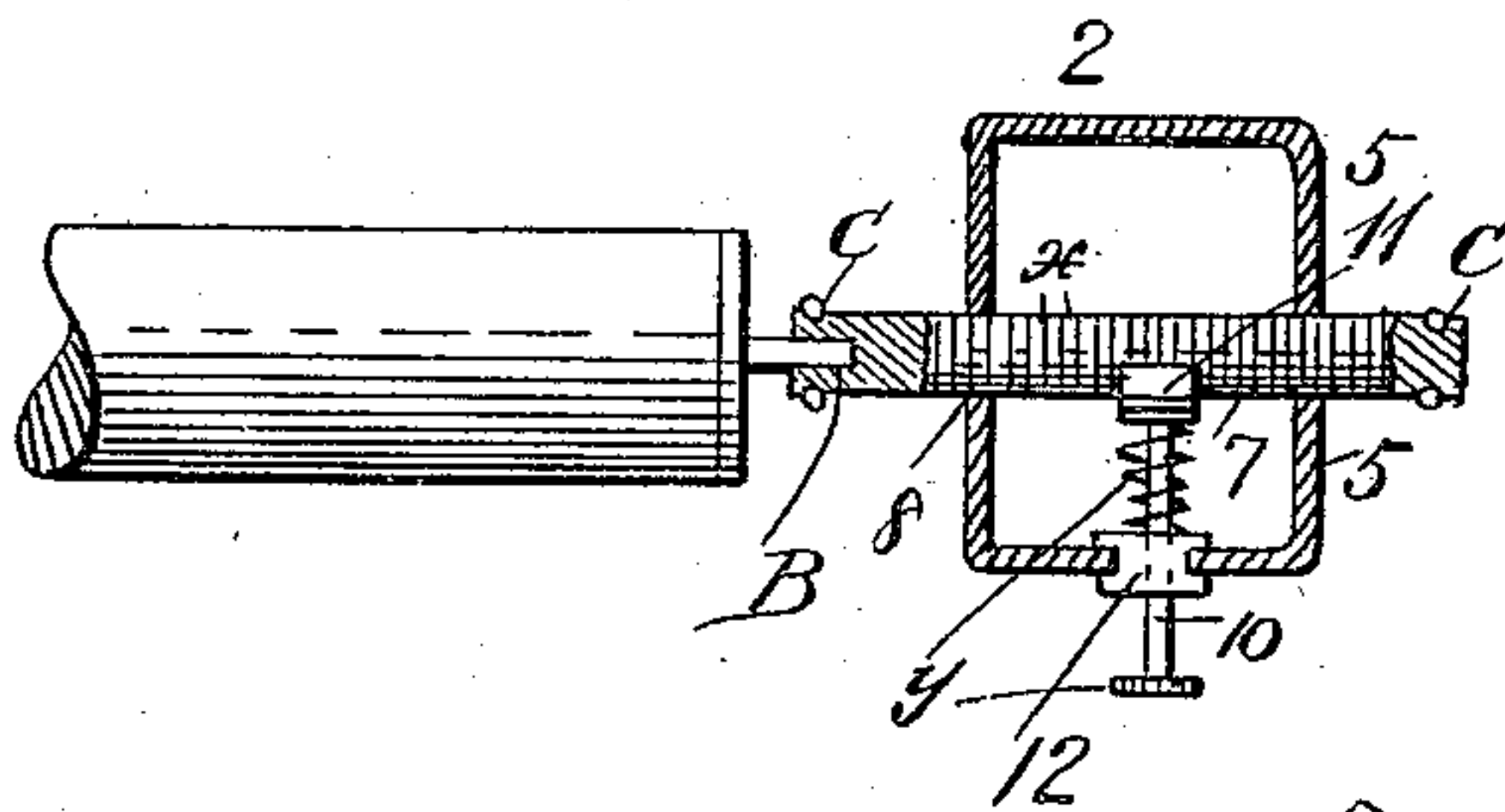


Fig. 3.

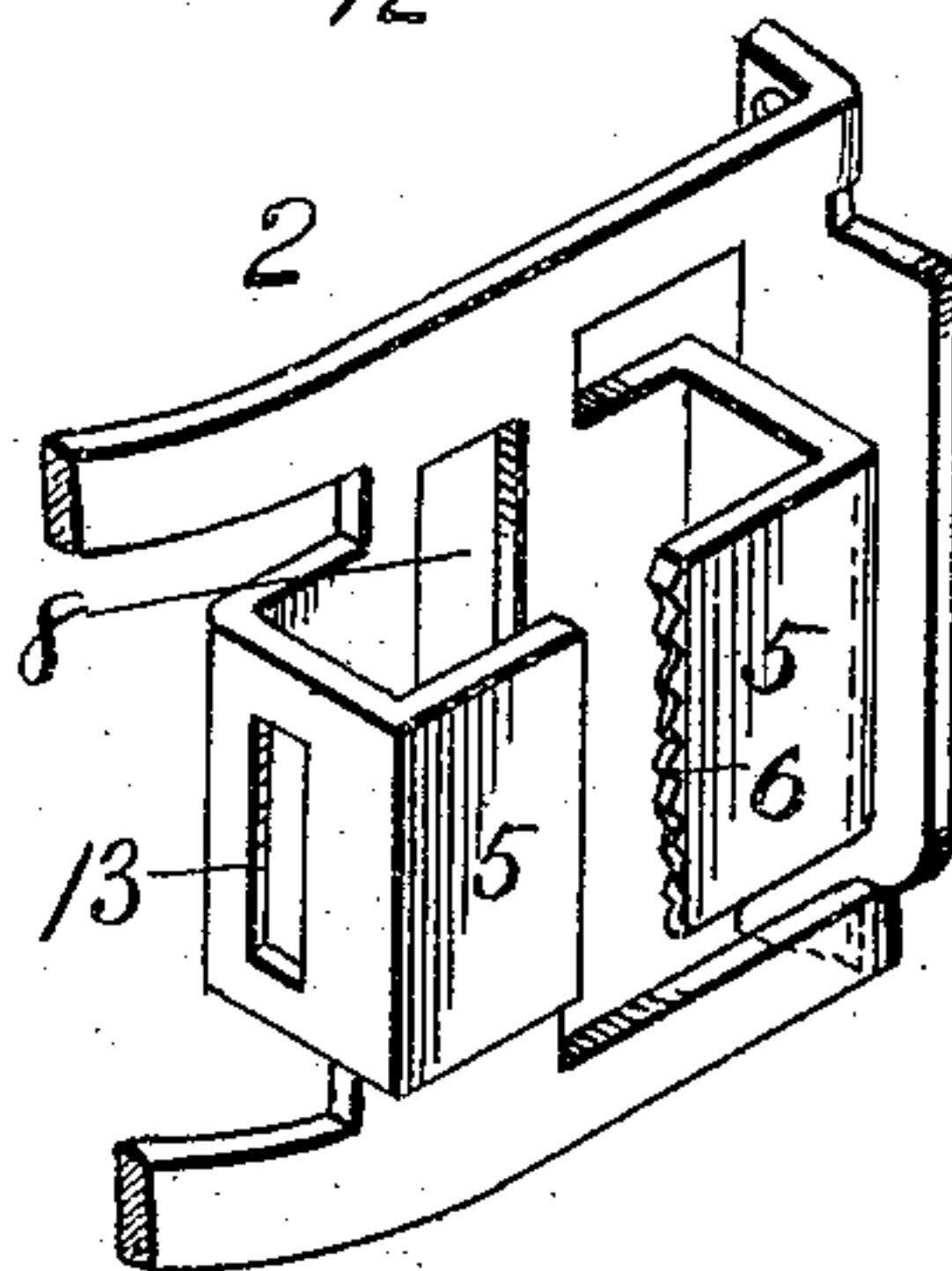


Fig. 4.

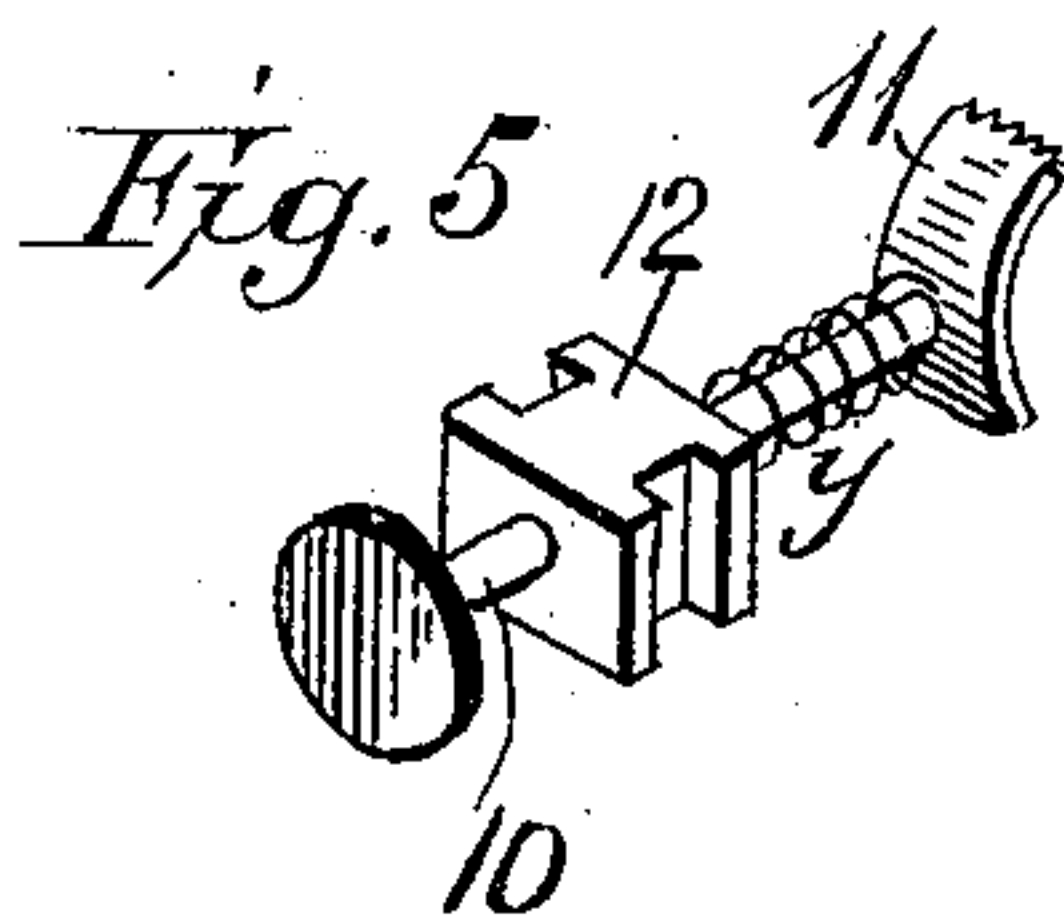


Fig. 5.

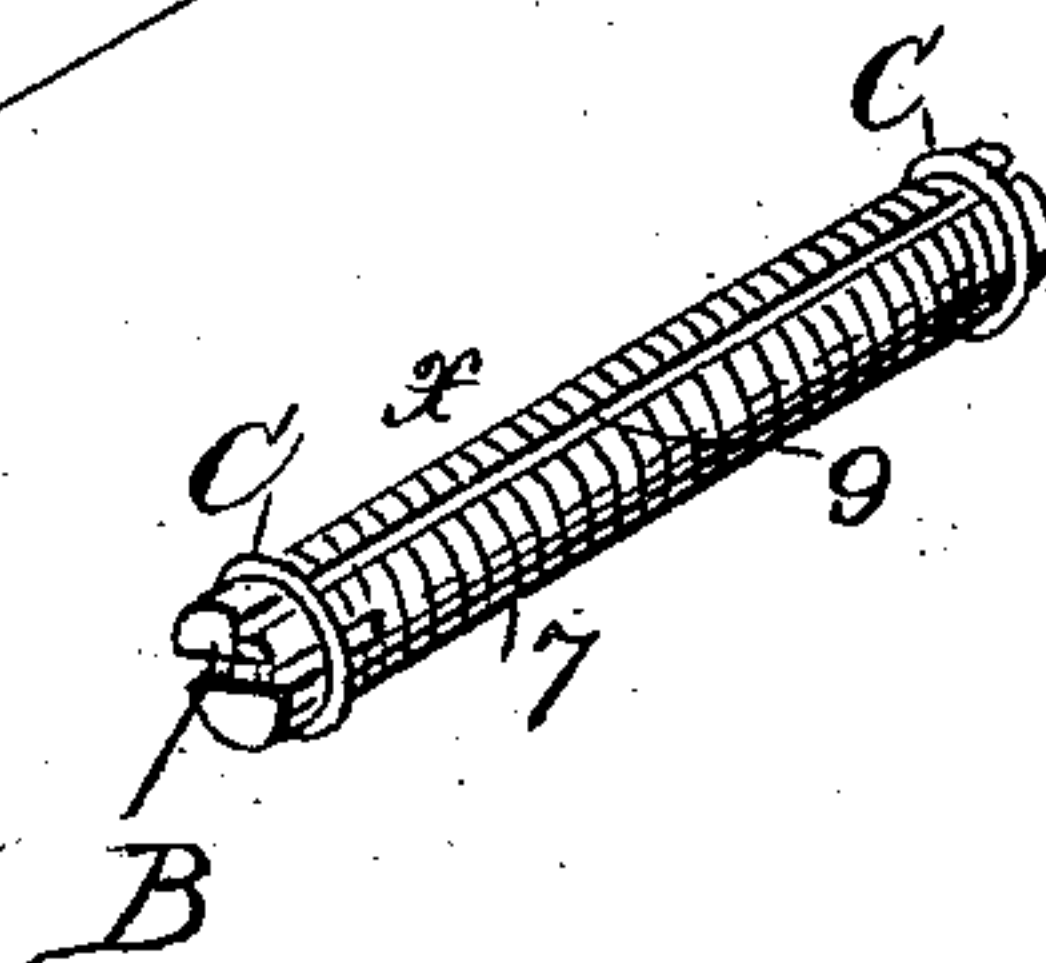


Fig. 6.

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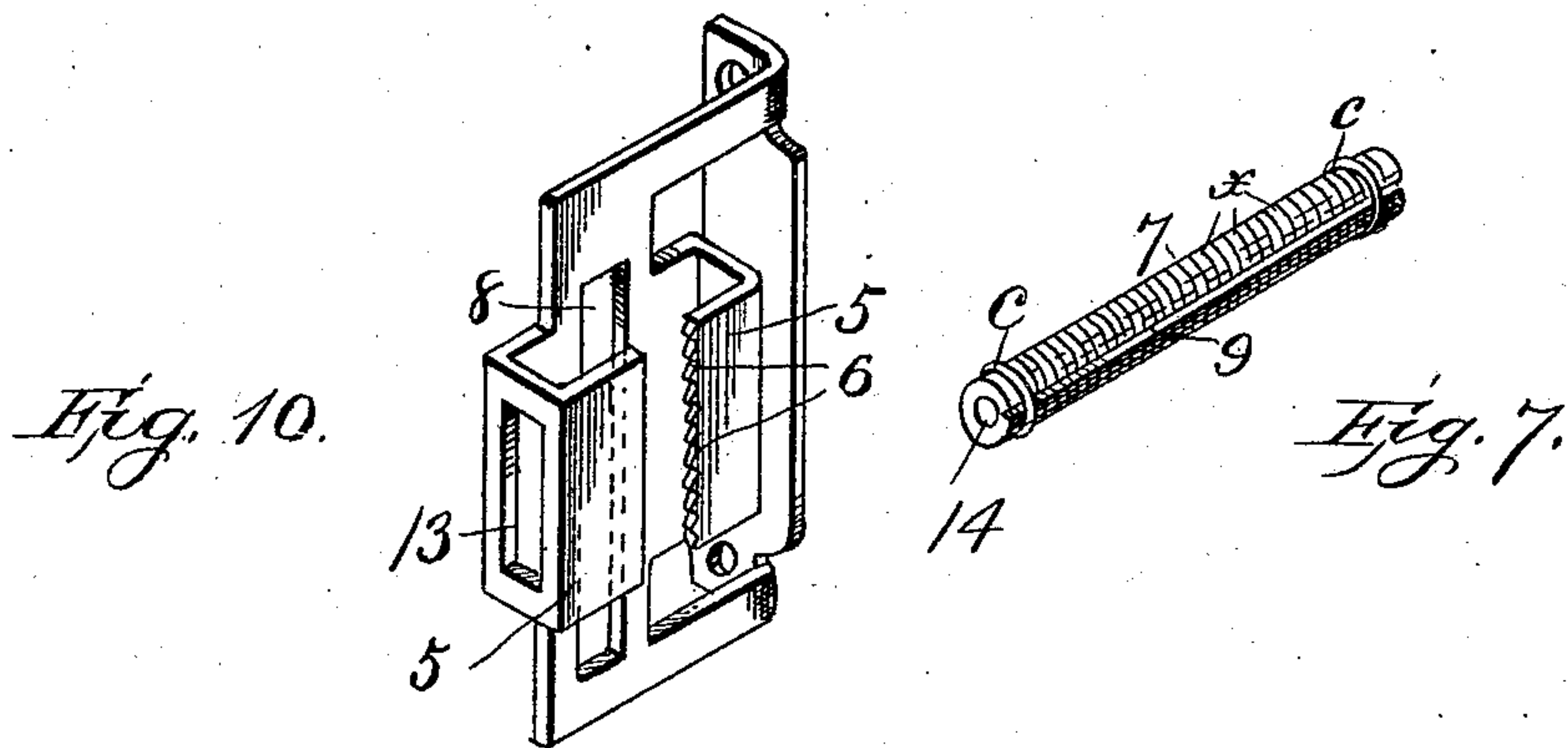
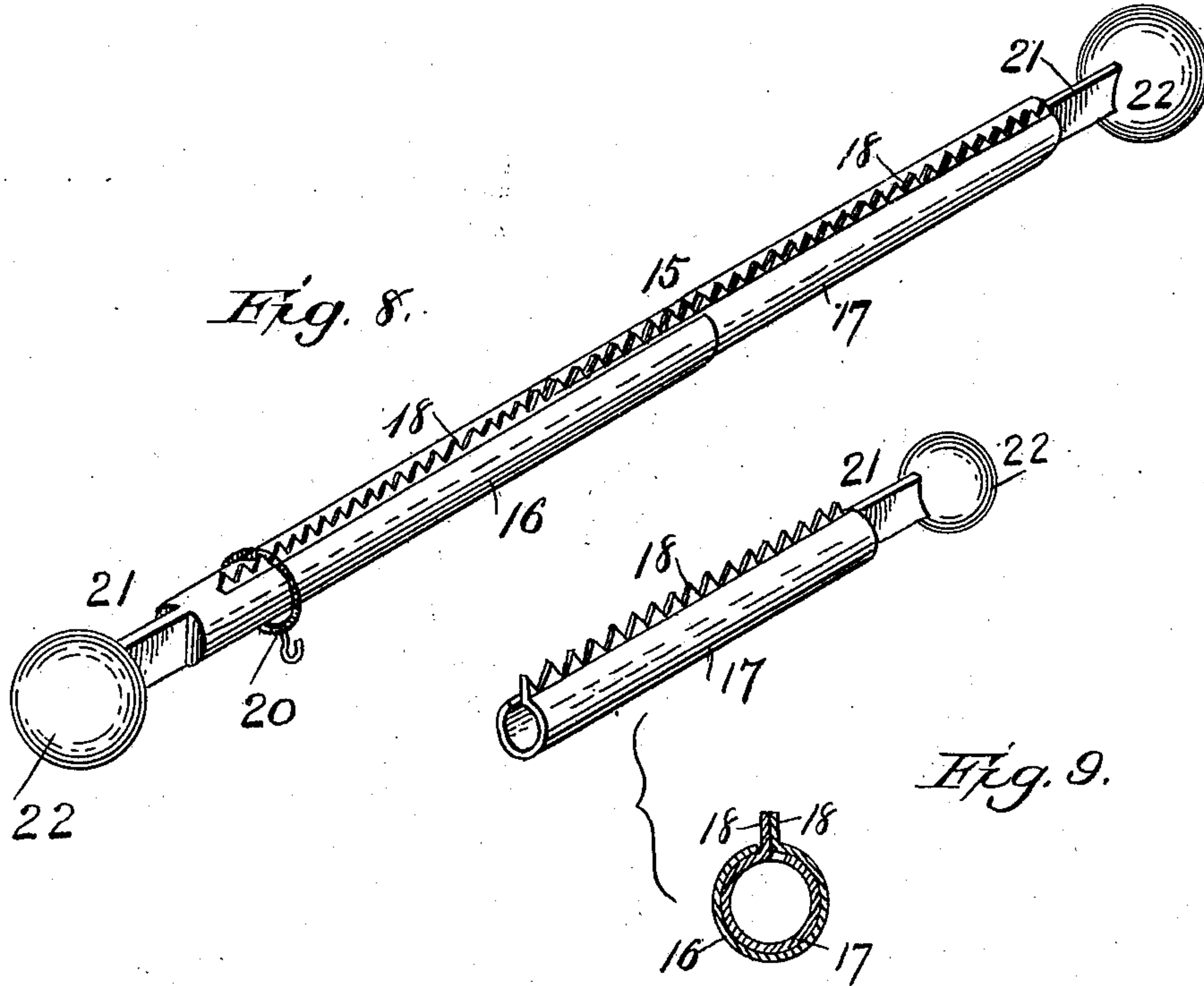
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

HENRY A. BIERLEY, OF PORTSMOUTH, OHIO.

COMBINED SHADE-ROLL BRACKET AND CURTAIN-POLE SUPPORT.

No. 842,067.

Specification of Letters Patent.

Patented Jan. 22, 1907.

Application filed September 17, 1906. Serial No. 334,994.

To all whom it may concern:

Be it known that I, HENRY A. BIERLEY, a citizen of the United States, residing at Portsmouth, in the county of Scioto and State of Ohio, have invented certain new and useful Improvements in a Combined Shade-Roll Bracket and Curtain-Pole Support, of which the following is a specification.

My invention relates to improvements in shade-roll brackets and curtain-pole supports. Its objects are to provide for the ready application or attachment of the combined shade-roll bracket and pole-support to the window-frame and the shade-roll bracket to either the upper end or lower end of said window-frame; for the ready adjustment of the shade-roll as circumstances may require in compensation for the length of the roll according to the width of the window-frame and in properly alining of the same in operative position; for effectively retaining the shade-roll bearings against accidental displacement and their ready removal and replacement; for readily suspending the curtain in position upon the pole and for its effective retention thereon, and for carrying out these objects in a simple, economic, and expeditious manner.

Said invention consists of certain features or instrumentalities substantially as hereinafter fully disclosed, and specifically pointed out by the claims.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a perspective view thereof as applied for use. Fig. 2 is a detached perspective view of a shade-roll bracket and curtain-pole support including a bearing for one end gudgeon or axis of the shade-roll. Fig. 3 is a horizontal section produced through said bracket and support, with said bearing shown in plan view. Fig. 4 is a broken perspective view of said bracket and support, with certain adjunctive parts thereof omitted. Fig. 5 is a perspective view of a detail thereof. Fig. 6 is a like view of the aforesaid bearing. Fig. 7 is also a like view of the opposite roll-bearing disassembled. Fig. 8 is a disassembled perspective view of the curtain-pole with the parts or sections thereof disconnected or separated and a fragmentary portion of the curtain suspended in position therefrom. Fig. 9 is a vertical or transverse section produced through said pole. Fig. 10 is a perspective view of the form of said bracket and

support with said bearing as applied to the lower part of the window-frame.

In the disclosure of my invention I suitably attach or apply to the upper part of the window-frame 1 at each of opposite points thereon a combined roll-bracket and pole-support 2, cast in a single piece and preferably of the general outline disclosed, it being suitably formed to receive fastenings for that purpose, as shown. Said casting has the pole-supporting portion or member thereof formed at its upper end with an outward extension 3, having near its forward end an upward-opening notch 4, with a preferably oblong or rectangular slot 5^a extending downward centrally from its bottom, the purpose of which will presently appear in connection with the description of the curtain-pole. Said bracket or support has offset or outstanding about centrally therefrom opposed right-angled wings or extensions 5, with their outer vertical edges spaced a suitable distance apart for the purpose later made apparent, and one of said edges formed with numerous preferably tapered projections, the function of which will also be seen hereinafter.

A preferably cylindric bearing or arm 7 is arranged to have endwise movement or slidable in the bracket 2 and is provided for the support of one end of the shade-roll A, having a slot B in one end for the reception of one stud or gudgeon of said roll. Said bearing or arm extends through and is guided by a vertical slot 8 in the bracket or support 2 and is adapted to also extend between the vertical edges of the wings 5. Said bearing or arm has a longitudinal tapered groove 9 for engagement with any one of the projections of one of said wings to aid the retention of said arm or bearing in position and to permit its vertical adjustment as presently disclosed. A suitable finger-disk-equipped stem or clamp 10 has a preferably face serrated or roughened shoe or foot 11, laterally engaging the arm or bearing 7 in opposition to the projections 6 and passing loosely through a vertically-movable block or slide 12, arranged to travel vertically and suitably guided in a vertical slot 13 in one of the wings 5. Said bearing or arm has preferably rings C, firmly seated in annular recesses therein and encompassing it near its ends, thus being arranged transversely to the plane of the slots 7 and B therein for forming stops, as will be observed, to restrict the movement of said bearing or arm upon

the projection 6 to prevent the turning of said bearing and escape of the roll-stud from said bearing. Of course it is obvious that this end may be reached in other ways than by the use of encompassing-rings secured to the bearing or arm aforesaid. The bearing or arm has also a laterally roughened surface or serrations x to aid the gripping action of the foot or shoe of said dog or stem, and upon the last-named is arranged a spring y , interposed between said foot or shoe and the slide, and is adapted to deliver its tension upon said shoe or foot for its retention in engagement with said bearing or arm. The duplication of these parts is provided for the support and adjustment of the opposite end of the shade-roll A, in that case the bearing or arm, as disclosed by Fig. 7, having an orifice or socket 14 to conform to the cylindric stud or gudgeon of said end of the shade-roll, the purpose of which is obvious. It will be noted that by suitably manipulating the stems or clamps 10 and effecting engagement between the requisite one of each series the numerous projections 6 and the slots or grooves 9 in said bearings the latter may be raised or lowered as desired, or in case said bearings or arms should require alinement this may be readily effected by accordingly adjusting the aforesaid parts. It is needless to state that by this same means the shade-roll may be readily placed in position and with equal facility be removed and replaced, as is apparent.

A curtain-pole 15 is suitably comprised of two telescoping or extensible and contractible sections or members 16 17, being preferably hollow or tubular and fitting one within the other and having upstanding serrated or toothed longitudinal extensions or plates 18, effective to project between said sections in mutually parallel lines, whereby in suspending the curtain or curtain members 19 therefrom the suspending rings 20 are permitted to be engaged with the serrations or teeth of both pole members conjointly, and thus provide for the retention of the latter at the requisite point of adjustment and against displacement or separation without other fastenings. Said pole members or sections are equipped with end plate-like portions 21, preferably terminating in spherical end portions 22, said plate-like or edgewise-arranged portions being let into the notches and slots 4 5 of the pole-support member 3 of the device, as seen in Fig. 1.

It will be noted that the use of the shade-roll bearings or arms provide for compensating in length for said roll in fitting or applying the same to window-frames of varying widths, as will be readily appreciated. Also it will be observed that in applying the shade-roll to the lower part of the window-frame the shade-roll studs will not become detached or displaced, since the end slot provided in

one bearing or arm, as above described, has a continuous wall or does not open out laterally through the latter. Further, it is noted that the shade-roll bracket and curtain-pole support, which is applied, of course, to the upper part of the window-frame, is readily adapted for application to the lower part of the window-frame with but slight alteration or modification, as will be seen by reference particularly to Figs. 1 and 10.

I claim—

1. A device of the character described, employing a bracket having opposite alining vertical slots therein; a bearing or arm for a shade-roll stud or gudgeon passing through said slots, one of the edges of one of said slots having serrations for engagement with said bearing or arm, and a common means effective for the vertical adjustment of said bearing or arm, and also for its longitudinal or horizontal adjustment comprising a clamp engaging said bearing or arm, a slide arranged in connection with said bracket and carrying said clamp, and means effective for the retention of said clamp in engagement with said arm and the latter in its adjusted position in said bracket.

2. A device of the character described, employing a bearing or arm for a shade-roll, a bracket equipped with a vertically-movable slide and having opposite alining vertical slots therein, one of the edges of one of said slots having serrations for engagement with said bearing or arm, a manually-actuated clamp carried by and loosely passing through said slide and provided with a foot or shoe engaging said bearing or arm, and means arranged upon said clamp for the automatic retention of said bearing or arm in engagement with said bracket-adjusting means.

3. A device of the character described, employing a bearing or arm for the support of the shade-roll, having a longitudinal slot or groove, a slide, a clamp carried by and loosely passing through said slide and equipped with a shoe or foot engaging said bearing or arm, and a bracket having a slot for controlling the movement of said slide and a slot through which extends said bearing to the shade-roll, said latter slot having one wall equipped with a projection engaging a longitudinal groove in said bearing or arm.

4. A device of the character described, employing a bearing or arm, having a longitudinal groove or slot therein, rings or stops fixed to said bearing or arm transversely of said groove, near the ends of the former, and a bracket equipped with a vertically-movable slide, a manually-actuated clamp having screw-threaded connection with said slide, and equipped with a shoe or foot laterally engaging said bearing or arm, said bracket also having a vertical slot through which extends said bearing or arm, and said slot having one of its walls equipped with a

series of projections effective for engagement with the groove or slot of said bearing or arm.

5 5. A device of the character described, employing a bearing or arm having a longitudinal slot or groove and rings encompassing said bearing or arm transversely of said groove or slot near its ends, said bearing being effective for the support of a shade-roll at
10 one end, a bracket having outstanding or offset therefrom opposed right-angled wings with their outer vertical edges spaced apart to form a vertical slot, one of the walls of the latter being equipped with a series of pro-
15 jections adapted for engagement with the groove or slot of said bearing or arm, a slide movable in said vertical slot and a manually-actuated clamp carried by and loosely passing through said slide, said rod also having a
20 shoe or jaw member adapted to laterally engage said bearing or arm.

6. A device of the character described, employing a bearing or arm for one end of a shade-roll and having a longitudinal groove,
25 a bracket having opposed offset portions or wings with their outer vertical edges spaced apart and one of the walls of the space or slot provided with a series of projections for engagement with said groove, a slide arranged

in a lateral slot in one of said wings, a manu- 30 ally-actuated clamp carried by and passing loosely through said slide and provided with a shoe or foot member at one end for laterally engaging said bearing or arm, said bracket having at its upper end an outward 35 extension provided with a notch having a slot in its bottom and effective to form a support for the opposed end of a curtain-pole.

7. A device of the character described, 40 employing a shade-roll bracket having a vertical slide, a spring-pressed clamp or stem carried by said slide and equipped with a foot or shoe having a roughened or serrated surface, and a bearing or arm arranged in 45 said bracket for the support of one end of the shade-roll, and having a lateral roughened or serrated surface, and means providing for the endwise movement and vertical adjustment of said bearing or arm, said shoe or 50 foot engaging said bearing or arm.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY A. BIERLEY.

Witnesses:

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J. W. MISTER.