

24. BUCKLES, BUTTONS, CLASPS, ETC.,

Separable fasteners,

Head & socket,

Lateral closures.

No. 818,700.

PATENTED APR. 24, 1906.

W. B. MOREWOOD.  
SUPPORTING DEVICE.

APPLICATION FILED NOV. 17, 1905.

Fig. 1,

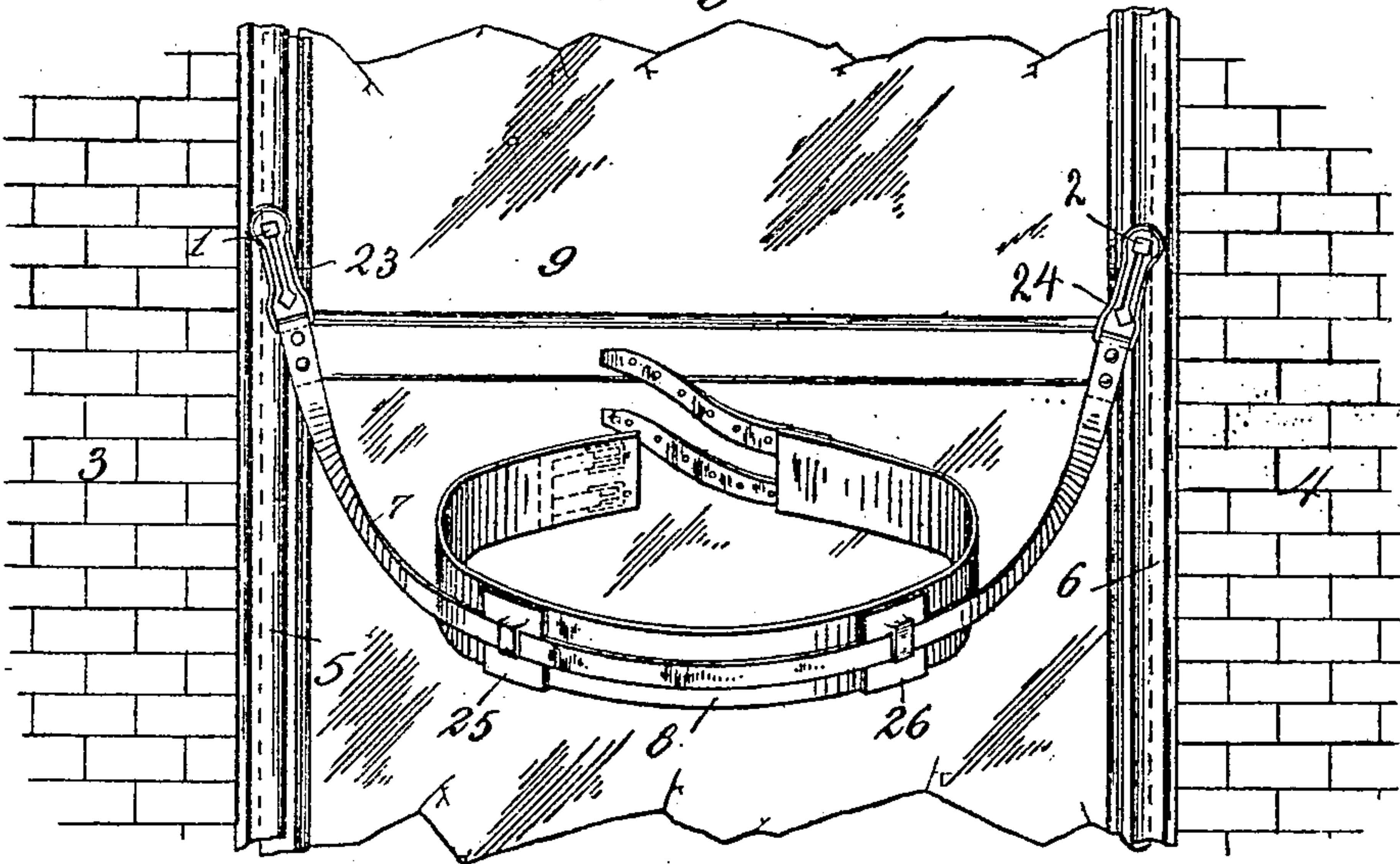
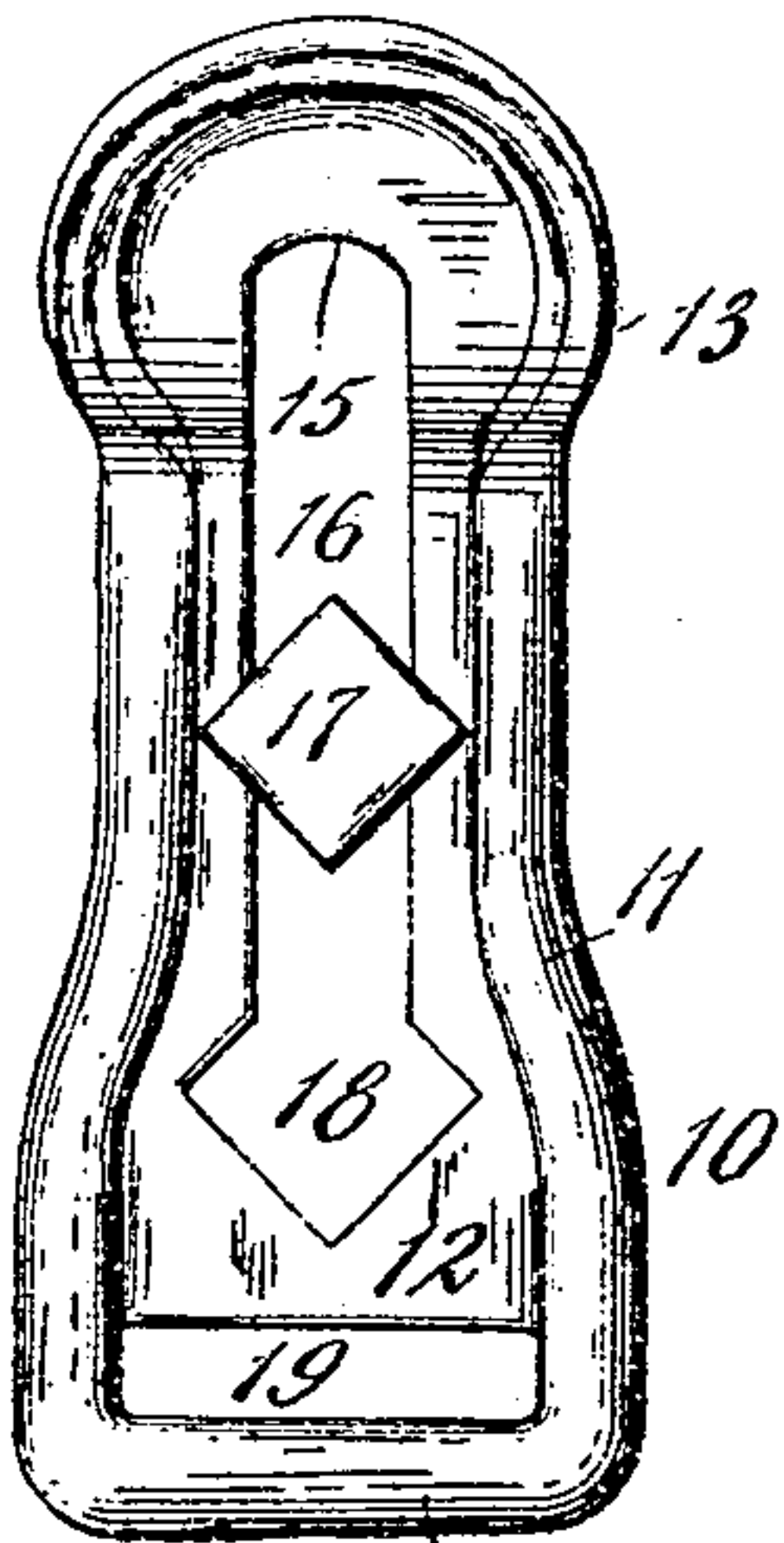


Fig. 2,



WITNESSES:

Leonard Day  
Emily L. Krane

Fig. 3,

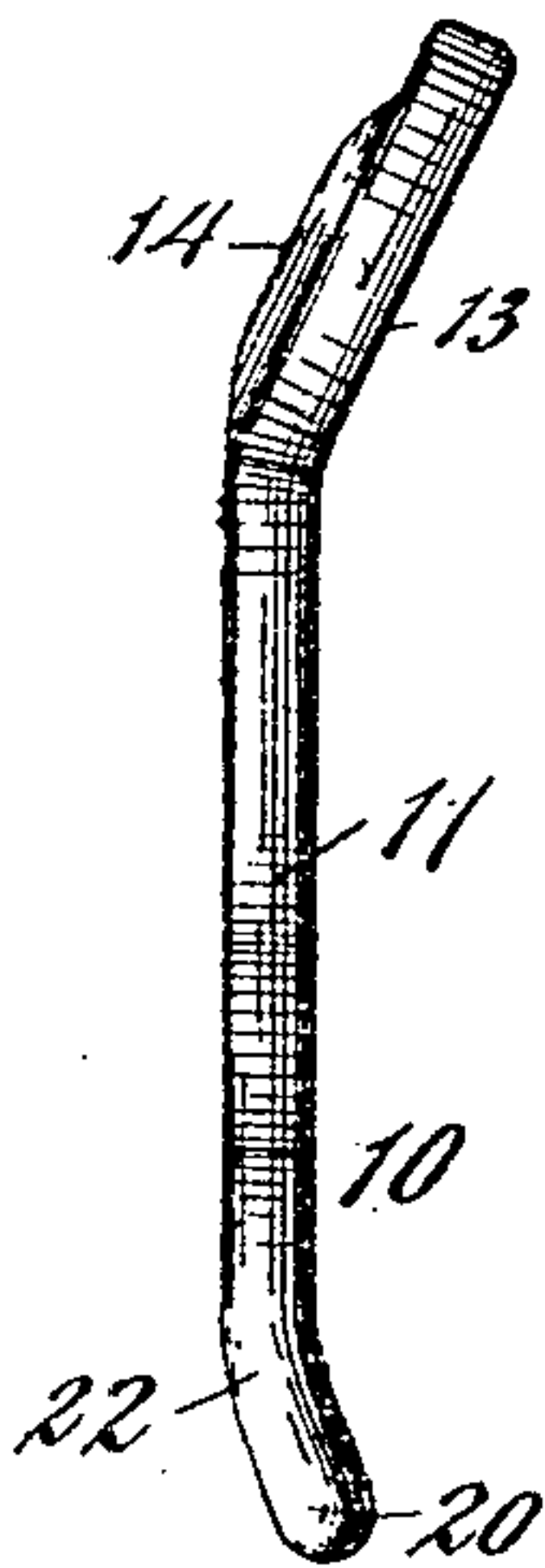
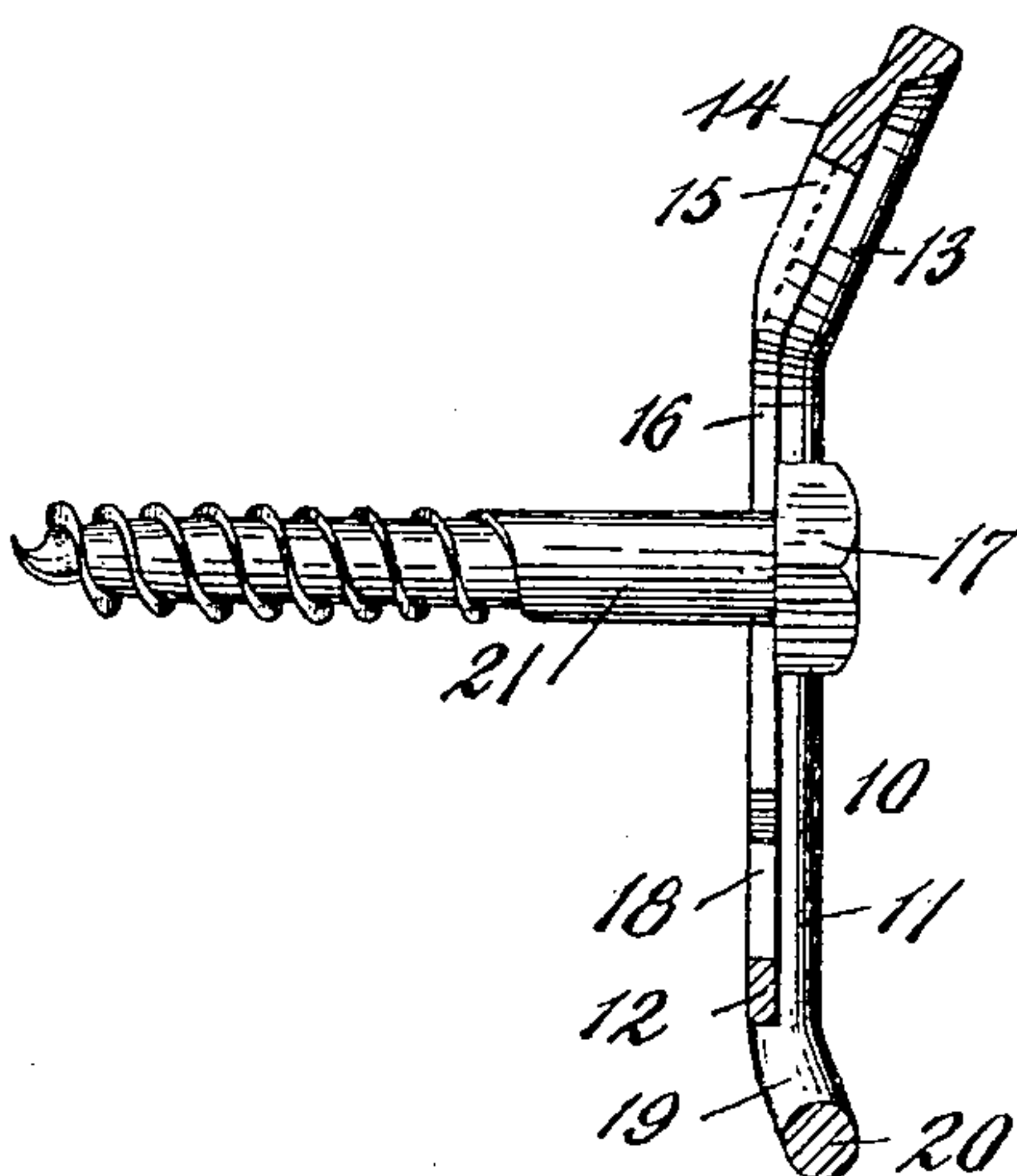


Fig. 4,



INVENTOR

William B. Morewood

BY

Tuckersmith & Co.,  
his ATTORNEY



# UNITED STATES PATENT OFFICE.

WILLIAM B. MOREWOOD, OF ELIZABETH, NEW JERSEY.

## SUPPORTING DEVICE.

No. 818,700.

Specification of Letters Patent.

Patented April 24, 1906.

Application filed November 17, 1905. Serial No. 287,915.

*To all whom it may concern:*

Be it known that I, WILLIAM B. MOREWOOD, a citizen of the United States, and a resident of Elizabeth, Union county, New Jersey, (and whose post-office address is 253 Broadway, New York city,) have invented certain new and useful Improvements in Supporting Devices, of which the following is a specification.

10 This invention relates to supporting devices and to such as are more particularly designed and adapted to support a man when cleaning or repairing a window.

15 The invention consists of the features hereinafter set forth, and pointed out in the claims.

20 In the accompanying drawings, forming part of this specification, and in which like reference-numerals designate corresponding parts, I have shown the preferred embodiment of my invention.

Figure 1 is a perspective view showing the device connected in operative position. Fig. 2 is a plan view of the supporting-clip, showing a bolt in the relative position to the clip necessary for the removal or application of the clip. Fig. 3 is a longitudinal elevation of the supporting-clip. Fig. 4 is a sectional longitudinal elevation of the clip and a bolt such as is illustrated in Fig. 2.

30 Referring now more particularly to the details of the structure shown in the drawings, 3 and 4 are the walls of a building, while 5 and 6 are the corresponding sides of a window-casing on either side of a window 9.

1 and 2 are bolts, similar to the bolt illustrated in Figs. 2 and 4, seated in the window-casing.

7 is a supporting strap or cord attached to two similar supporting-clips 23 24, which are respectively in engagement with the bolts 1 and 2. The strap or cord 7 is attached to a supporting-belt 8 by means of guides 25 and 26.

45 The supporting-clip is shown in detail in Figs. 2, 3, and 4, in which 12 is a substantially flat strip or web of metal completely inclosed by an integral reinforcing-margin 11, which is raised from the surface of the strip. This margin not only allows the clip to be made from a minimum amount of material, but adds finish and strength to the clip.

50 One end of the clip terminates in a circular portion 13, which is turned up at an obtuse angle to the body of the clip and is provided on its lower face with a rounded or convex seat 14. The circular contour of the end 13,

aided by the convexity of the seat 14, allows free movement of the clip and prevents the end of the clip from locking against any irregularity on the window-casing or on the wall 60 of the building, to which the bolts 1 and 2 are sometimes attached. The bolts 1 and 2 may be ordinary commercial stock bolts and need not be specially designed.

18 is a square bolt-head opening passing 65 through the inner end of the strip 12 and is disposed with a diagonal extending lengthwise of the strip. A slot 16 of sufficient width to receive the shank of the bolt 21 extends lengthwise through the strip from the bolt-head opening 18 to a rounded wall 15 in the center of the circular turned-up portion 13. A portion of the strip 12 is cut away at 19 adjacent to the reinforcing-margin at the end of the strip. This margin is turned up 75 or offset from the body of the clip at 22, and the end portion 20 forms a smooth round strap-attaching bar.

80 The clip may be cast or may be stamped out of sheet metal.

In order to apply the clip to a bolt, it is first necessary to turn the clip in the relative position to the bolt-head, as is illustrated in Figs. 2 and 4, or at right angles thereto, when the bolt-head 17 may be passed through the opening 18 and the shank 21 pass up through the slot 16 into engagement with the wall 15, when the head 17 is locked in the clip by the strip 12.

It is obvious from Fig. 1 that when the bolt is applied in operative position the clips are turned relatively to the bolts, so that if by accident they should slide up from the shanks of the bolts it would be impossible for them to disengage the same, as the bolt-heads 95 17 could not pass through openings 18, because their faces would not aline with the walls of the openings. The position of the bolt-heads relative to the walls of the building and the position of the square opening 18 relative to the clip 10 might be modified from those illustrated so long as their relative position when the device is in use would prevent accidental disengagement of the clip. However, it is preferred to locate the square opening 18 with a diagonal disposed lengthwise of the clip, so that the walls of the opening 18 form inclined guides to deflect the shank of the bolt into the locking-groove 16 as soon as the bolt-head has passed through the opening 18.

110 The clip is turned up at both ends, so that



the strain of the supporting-strap may be advantageously applied to the bolt and so that the clip may possess greater freedom of movement upon the bolt.

5 It will be seen that the clip, although affording perfect security and ready adjustability on the bolt, is quite simple in its construction and economical of manufacture, as it can be cast in one piece without the use of  
10 a core.

It is to be understood that my invention is not limited to the precise details as shown in the accompanying drawings.

What I claim, and desire to secure by Letters Patent, is—

1. A supporting-clip, comprising a strip of metal completely inclosed by an integral reinforcing-margin raised from the surface of the strip, one end of the clip terminating in a  
20 circular portion turned up at an obtuse angle to the body of the clip, the strip at the other end cut away adjacent to the margin, said margin forming a round strap-attaching bar, said clip being provided with a square bolt-  
25 head opening which passes through the strip adjacent to the strap-attaching bar with a diagonal disposed lengthwise of the strip, and said strip being further provided with a bolt-

receiving slot extending from the bolt-head opening to a rounded wall in the center of the  
30 circular portion.

2. A supporting-clip, comprising a strip of metal completely inclosed by an integral reinforcing-margin raised from the surface of the strip, one end of the clip terminating in a  
35 circular portion turned up at an obtuse angle to the body of the clip, the strip at the other end cut away adjacent to the margin, said margin offset from the body of the clip and forming a round strap-attaching bar, said  
40 strip being provided with a square bolt-head opening which passes through the strip adjacent to the strap-attaching bar with a diagonal disposed lengthwise of the strip, and said  
45 strip being further provided with a bolt-receiving slot extending from the bolt-head opening to a rounded wall in the center of the circular portion.

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

WM. B. MOREWOOD.

Witnesses:

EMILY G. GRAVIER,  
LEONARD DAY.