A. WENDELBURG.

SAFETY DEVICE FOR WINDOW CLEANERS.

APPLICATION FILED JULY 20, 1911. RENEWED JAN. 4, 1916.

1,194,259. Patented Aug. 8, 1916.

Fig. 1.

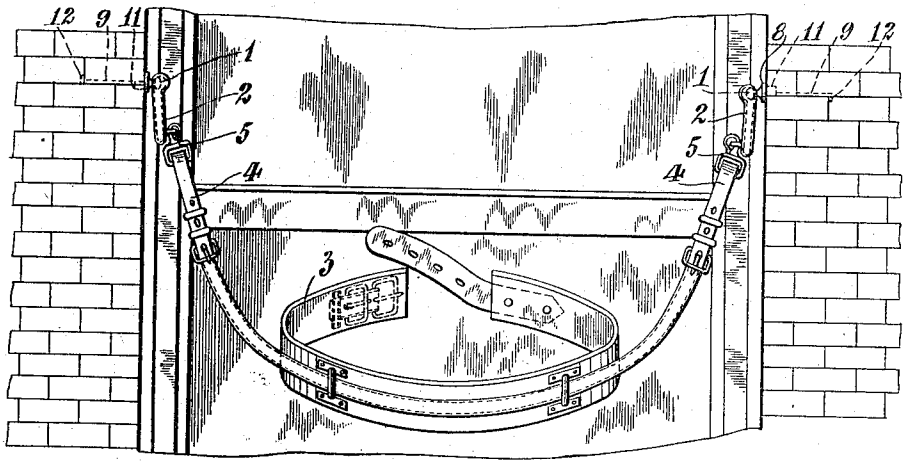


Fig. 3.



Fig. 2.

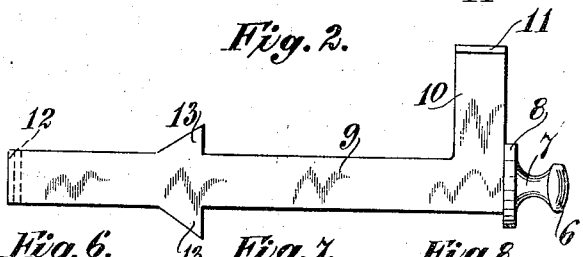


Fig. 4.

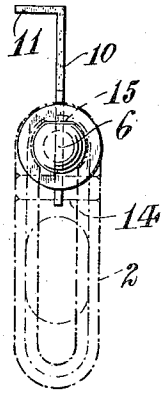


Fig. 5.

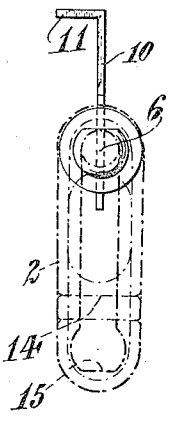


Fig. 6.

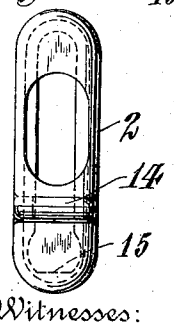


Fig. 7.

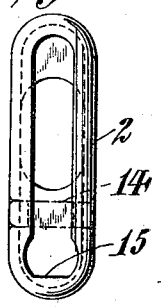
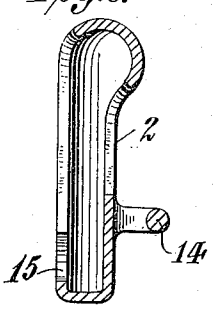


Fig. 8.



Witnesses:
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By his Attorneys
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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SAFETY DEVICE FOR WINDOW-CLEANERS.

1,194,259. Specification of Letters Patent. Patented Aug. 8, 1916.

Application filed July 20, 1911, Serial No. 639,502. Renewed January 4, 1916. Serial No. 70,308.

To all whom it may concern:

Be it known that I, ALEX WENDELBURG, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Safety Devices for Window-Cleaners, of which the following is a specification.

The invention relates to improvements in devices for supporting and holding persons while working on windows of high buildings. Devices of this kind employ a belt which passes around the body, a pair of clips to which the body-belt is connected by any suitable flexible means, and anchor bolts secured in the building.

The invention particularly relates to improvements in the anchor bolts and to the manner in which the anchor bolts are embedded in the building construction.

As showing a specific embodiment of the invention, reference is made to the drawing forming a part of the specification and in which—

Figure 1 shows the general arrangement of the anchor bolt, clip and belt when the latter is in use. Fig. 2 is a plan view of the anchor bolt. Fig. 3 is a side view of the bolt shown in Fig. 2. Fig. 4 is an end view of the bolt with the clip shown in the position which it occupies when the two are being assembled or disassembled. Fig. 5 is an end view of the bolt showing the bolt with the clip thereupon when the latter has been swung from assembling position. Figs. 6, 7 and 8 are respectively front, back and transverse sectional views of the clip to which the belt is connected.

In the drawings the reference character 1 indicates the anchor bolt with which the clip 2 engages. Any suitable member as the belt 3 may be utilized as a means to be fastened to or passed around the body and this is movably secured to any flexible strap as 4 which is connected to the clip 2 by the hook or link 5.

The anchor bolt is provided with a head 6, neck portion 7 and collar 8, all of which are integral with a broad thin flat longitudinally extending body 9 which extends between the bricks forming the wall. At the head end of the bolt there is also located a laterally extending leg 10 which is provided at its extremity with a longitudinally and vertically extending lip 11 that projects above the top of the leg. At the inner extremity of the body portion there is provided a transversely and vertically extending lip 12 which projects from the lower side of the body portion. There is also located at opposite sides of the body portion and between the leg 10 and transversely extending lip 12 a pair of ears 13 which engage the mortar between the bricks. It will therefore be observed from an inspection of Fig. 1 that the lip 11 engages the inner side of one brick in the wall while the vertically and transversely extending lip 12 engages a second brick in the wall between the sides of the wall. The clip 2 comprises a body portion having at one end thereof a yoke 14 to which the hook 5 of the belt is connected and also an enlarged opening 15 which is shaped so that the clip can be assembled on the anchor bolt only when this end of the clip is pointing inwardly. The clip is also provided with an elongated slot that merges with the enlarged opening. This elongated slot fits over the neck of the bolt and the overhanging portions at the sides thereof hold the clip on the hook by engagement with the head of the bolt. It will be apparent that when in normal operative position the end of the clip having the yoke and the enlarged opening normally extends downwardly and outwardly and when in this position it will be impossible for the clip and hook to be either assembled or disassembled. Therefore the clip cannot slip off over the hook should the clip be merely pushed upward. In other words the hook and clip can be disassembled only by the rotating of the belt end of the clip so that it extends inwardly and then sliding the clip so that the bolt and the enlarged opening in the clip will be opposite each other.

It will be obvious that various changes and modifications may be made without departing from the spirit and scope of the invention.

I claim as my invention:

1. An anchor bolt comprising a head, a longitudinally extending body portion, a laterally extending leg provided at its extremity with a vertically extending lip, said leg being located adjacent to the head end of the bolt the other end of the bolt being provided with a vertically extending projection carried by the body and laterally projecting ears carried by the body which

ears are located between the leg and the projection carried by the body.

2. In a brick wall building construction an anchor bolt having a longitudinally extending body portion located between horizontal faces of the bricks, a laterally extending leg integral with the body which leg is provided with a lip that engages the inner vertical side portion of the bricks, the body portion being also provided with a vertically extending lip that engages a vertical face of a brick, said last mentioned lip being located between the sides of the wall of the building.

3. In the brick walls of a building an anchor bolt having a head which is engaged by a clip or a safety device for window cleaners, a longitudinally and horizontally extending body portion, a laterally and horizontally extending arm, a vertically and transversely extending lip on the body, and a vertically and longitudinally extending lip on the free end portion of said arm, the longitudinally extending body and the arm both being located in the mortar between the horizontal face portions of adjacent bricks, the transversely and vertically extending lip being in engagement with the vertically extending end face of a brick and the vertically extending lip on the arm being arranged to engage a vertically extending face portion of a brick, which last mentioned portion faces the interior of the building.

4. In the brick walls of a building an anchor bolt having a clip engaging head, a longitudinally and horizontally extending body portion which is located in the mortar between the adjacent horizontally extending surface portions of the bricks that are arranged one above the other and a laterally extending leg having a horizontally extending portion that is located in the mortar between horizontal faces or surfaces of the opposing bricks, said leg also being provided with a vertically extending lip that is arranged to be opposed by a vertically extending surface portion of a brick which surface portion is located on the side of the brick that is on the inner side of the wall.

This specification signed and witnessed this 14th day of July A. D., 1911.

ALEX WENDELBURG.

Signed in the presence of—
EDWIN A. PACKARD,
G. MCGRANN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."