C. H. LEIDING.

SAFETY APPLIANCE FOR WINDOW CLEANERS.

APPLICATION FILED MAY 16, 1916. RENEWED JUNE 19, 1918.

1,275,053. Patented Aug. 6, 1918.

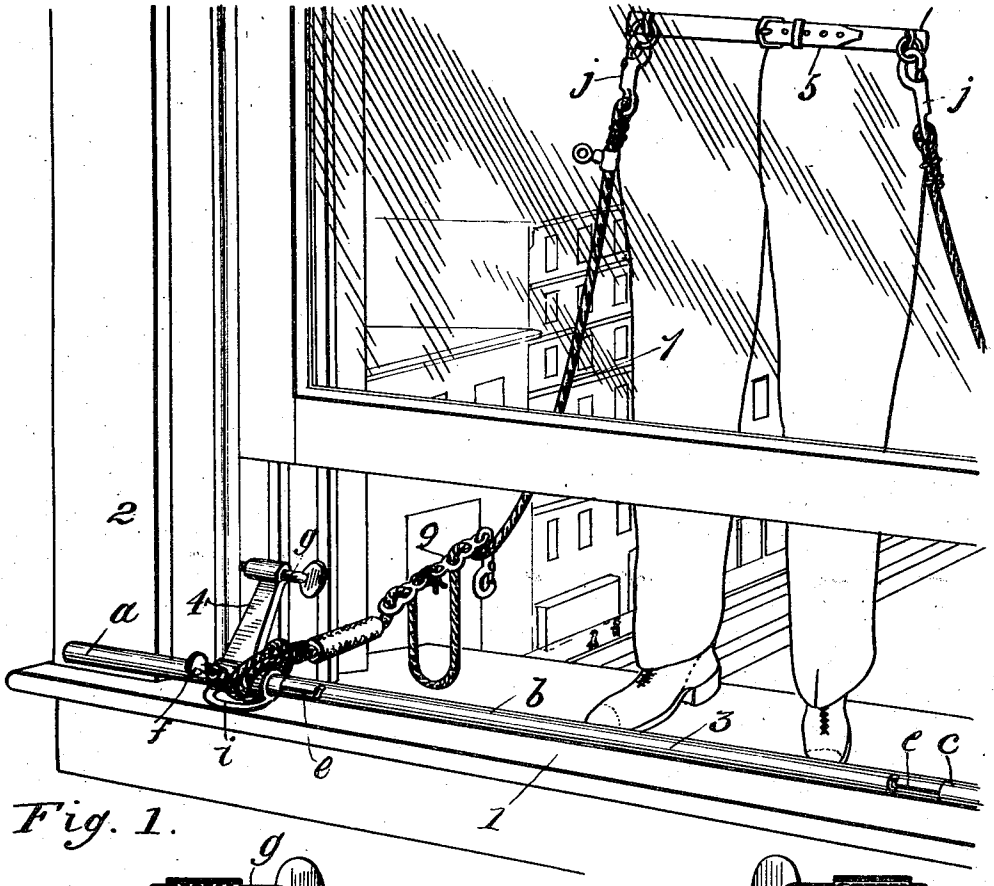


Fig. 1.

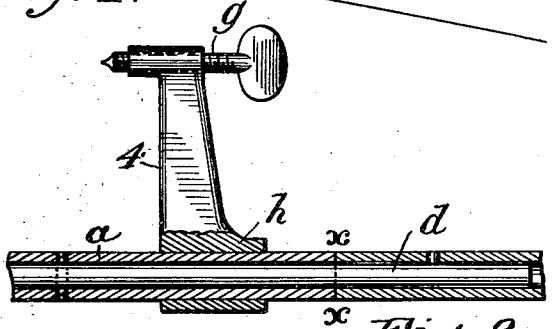
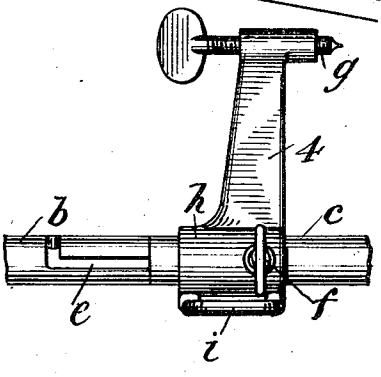


Fig. 2.



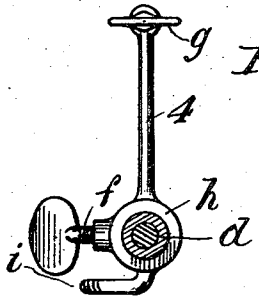


Fig. 3.

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UNITED STATES PATENT OFFICE.

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SAFETY APPLIANCE FOR WINDOW-CLEANERS.

1,275,053. Specification of Letters Patent. Patented Aug. 6, 1918.

Application filed May 16, 1916, Serial No. 97,789. Renewed June 19, 1918. Serial No. 240,864.

To all whom it may concern:

Be it known that I, CARL H. LEIDING, a citizen of the United States of America, and resident of Baltimore, Maryland, have invented certain Improvements in Safety Appliances for Window-Cleaners, of which the following is a specification.

This invention relates to an improved portable device whereby window cleaners who have to stand during a part of the cleaning operation, on the sill exteriorly of the window, are protected from serious injury should they lose their foothhold, as will hereinafter fully appear.

In the further description of the said invention which follows, reference is made to the accompanying drawing forming a part hereof, and in which, Figure 1 is a perspective view showing the invention as applied to a window frame; and Fig. 2 an enlarged partly sectional view of parts of the apparatus.

Fig. 3 is a section of Fig. 2 taken on the dotted line *x*—*x*.

Referring now to the drawing, 1 represents a window sill, and 2 a window frame erected thereon.

3 is a portable bar which in order that it can be easily changed in length, is preferably made of a tube in three pieces or sections *a*, *b* and *c*.

The end pieces *a* and *c* have each a short solid bar *d* fastened therein which projects beyond its inner end and is adapted to enter the central section *b*, and be fastened by what is usually termed a bayonet connection *e* as shown.

4, 4 are brackets adapted to be slid longitudinally of the bar 3, and they are fastened when set, by the thumb screws *f*. At their free ends the brackets are furnished with pointed thumb screws *g* which are adapted to be forced into the window frame 2. By this means the brackets 4 carrying the bar 3 can be held at any desired height, and secured. The hubs *h* of the brackets are fitted with rigid loops *i* through which ropes 7 are run as shown in Fig. 1. The loose end of the ropes are provided with a snap hook *j* which connect them firmly to a strap 5 which is buckled around the waist of the cleaner. Each rope is provided with a plate 9 which has a succession of holes through which the rope passes so as to take up the ropes in case of their being too long.

By means of the brackets with the thumb screws which can be screwed into the window frame, the safety device can be placed in any vertical position instead of at all times resting on the window sill.

I claim as my invention:—

In a safety appliance for window cleaners, the combination of the following elements, to wit: a bar, a pair of brackets each having a tubular hub provided with a rope loop, said brackets being adapted to be slid longitudinally of said bar, means for fastening each of said brackets to said bar, a pointed thumb screw threaded in the upper end of each bracket for engagement with the window frame, ropes looped with the loops of said brackets, and snap hooks fastened to said ropes for connection with a strap buckled around the waist of the operator, substantially as set forth.

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Witnesses:
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