

(No Model.)

S. & F. SEIB.
AUTOMATIC ROPE BUCKLE.

No. 294,408.

Patented Mar. 4, 1884.

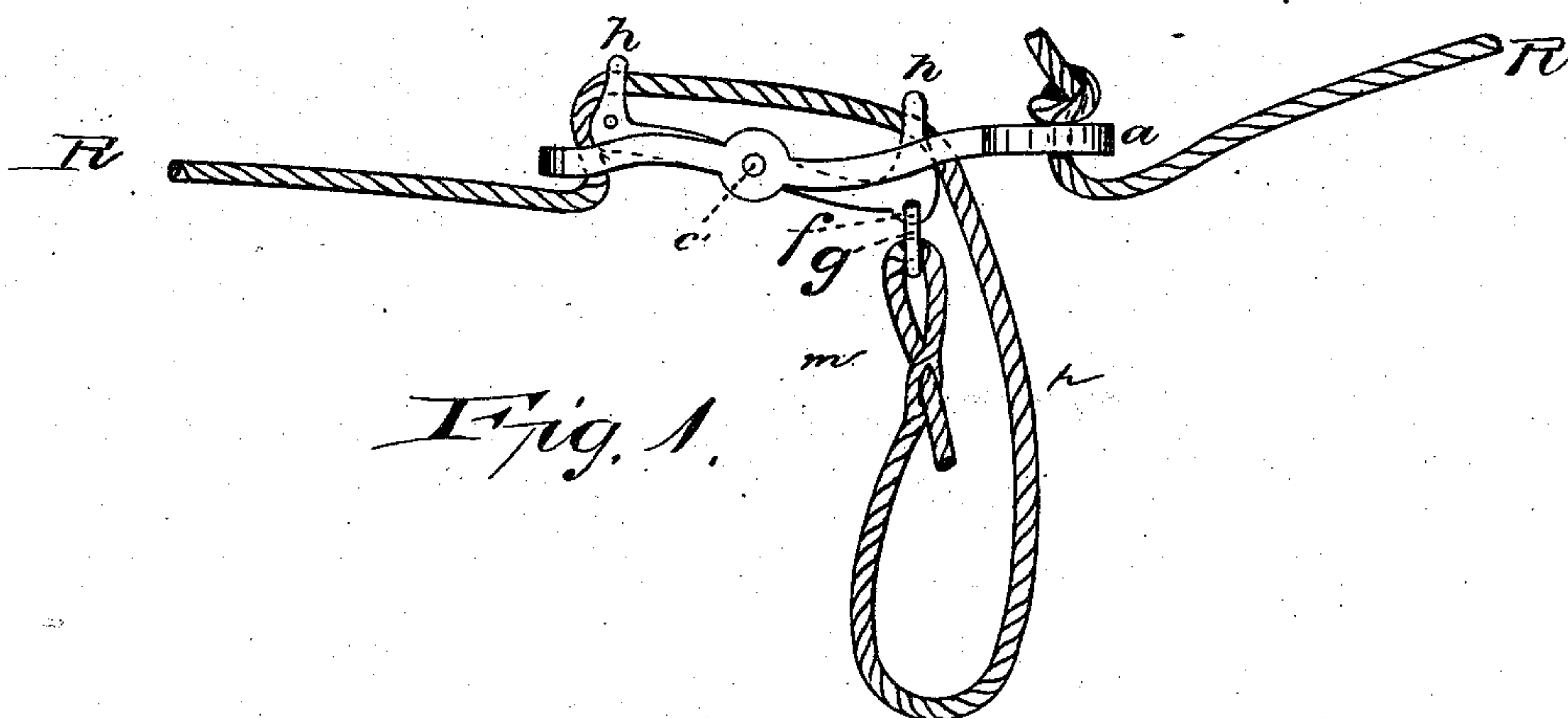


Fig. 1.

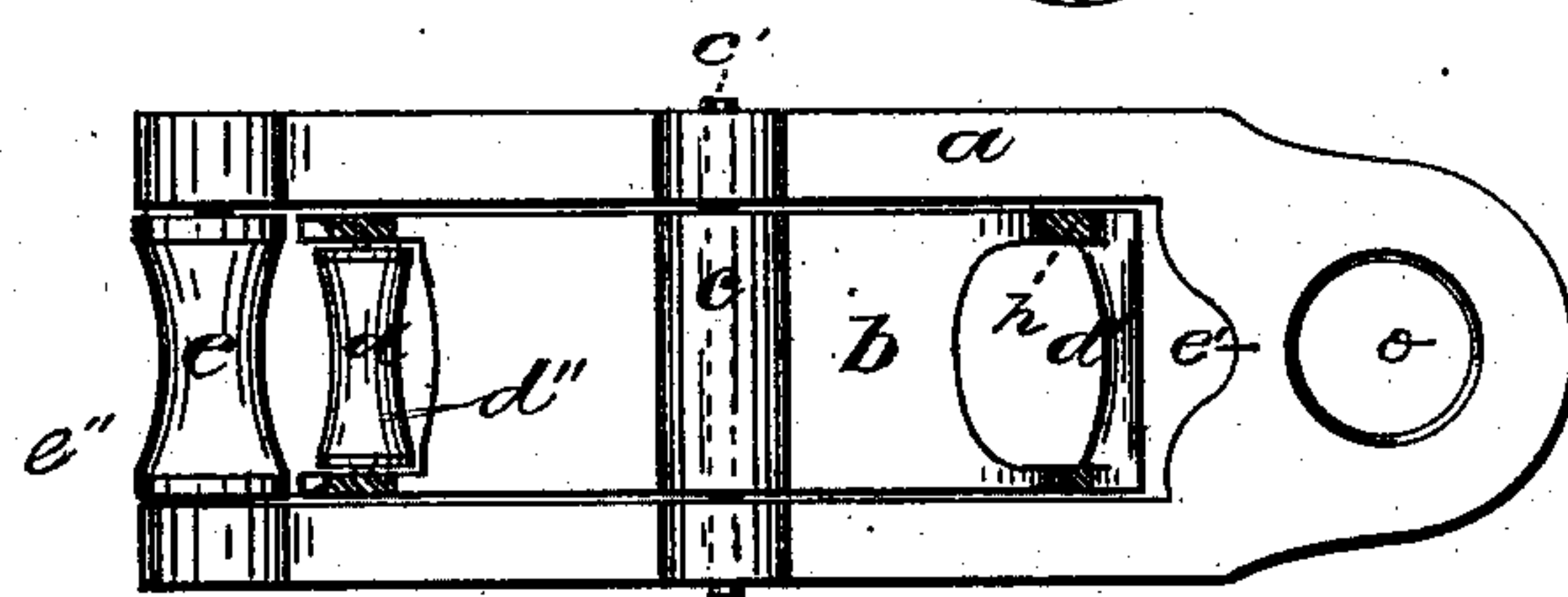


Fig. 2.

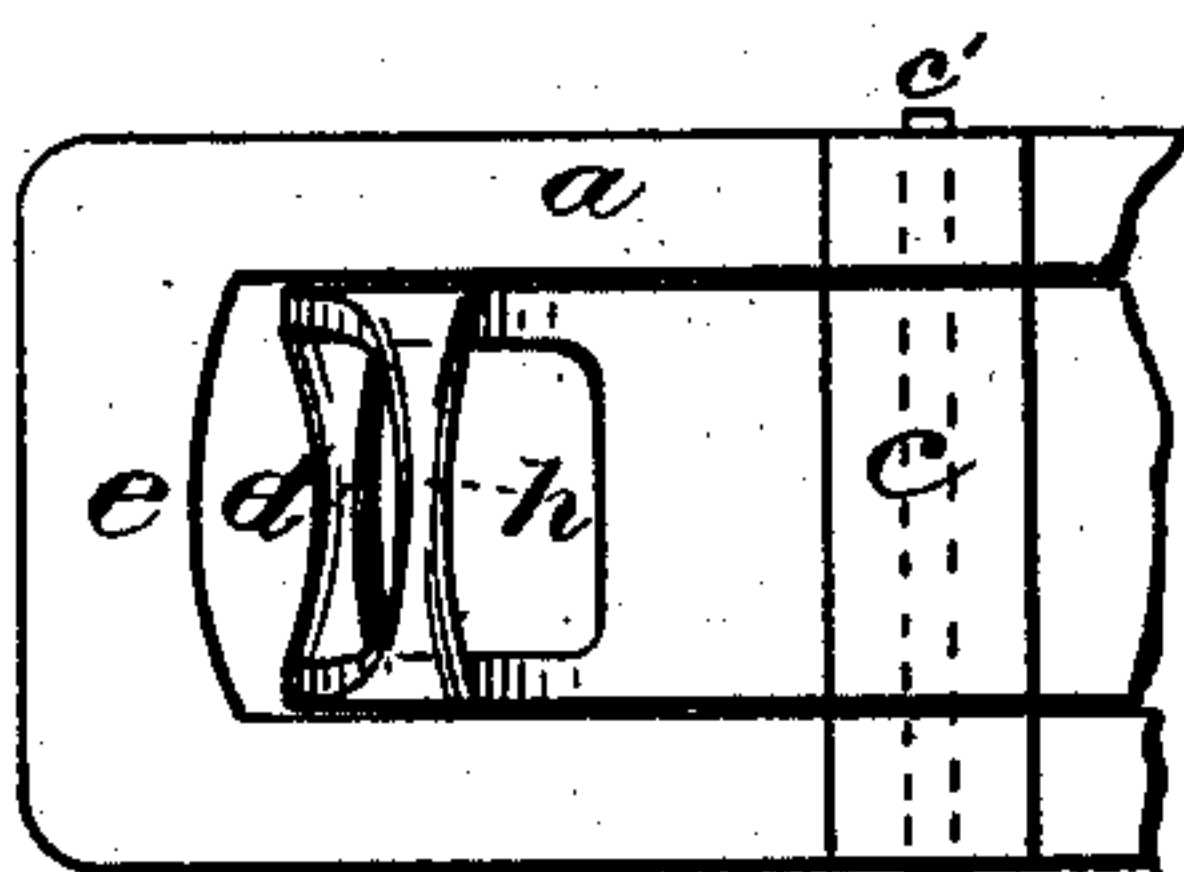


Fig. 3.

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UNITED STATES PATENT OFFICE.

SIMON SEIB AND FRANK SEIB, OF NEWARK, NEW JERSEY.

AUTOMATIC ROPE-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 294,408, dated March 4, 1884.

Application filed January 4, 1884. (No model.)

To all whom it may concern:

Be it known that we, SIMON SEIB and FRANK SEIB, citizens of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Automatic Rope-Buckles; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to take up with facility the looseness in clothes-lines or other ropes occasioned by stretching, or, should the rope shrink, to loosen the same, so that it may work easily in the pulleys.

The invention is especially adapted to be employed in connection with a rope stretched from the window of a tenement-house to a pole stationed at a distance therefrom, the ends of said ropes being united to form a continuous line adapted to be drawn over pulleys. The ends of said rope have heretofore been knotted together, to tie and untie which when taking up the slack has consumed considerable time.

The invention consists in the arrangements and combinations of parts substantially as will be hereinafter set forth, and finally embodied in the claims.

Referring to the drawings, in which similar letters indicate like parts in each of the figures, Figure 1 is a side elevation, and Fig. 2 a plan, of the device, showing the relation of the parts thereof; and Fig. 3 is a detailed view, illustrating certain modifications.

In carrying out the invention, we form a body piece or frame, *a*, the center of which is cut away or open to receive a movable piece or plate, which is pivoted at *c*. The extremities *d d'* of said plate form bearings and lie adjacent to co-operating bearings *e e'* on the frame. Between said bearings *d d' e e'* the rope *R* passes, and is held immovable when the plate is brought into longitudinal relation to the frame, and the draft or pull is

from *R* to *R*, as will be understood upon reference to Fig. 1. One of the ends of the pivotal plate *b* is provided with a loop, eye, or other means, *f g*, to receive the end *m* of the rope, and the frame is similarly provided at the end thereof adjacent to the parts *f g* with an eye or other means to receive the opposite end *n* of said rope.

Anti-friction rollers *e'' d''*, Fig. 2, may be added to reduce wear on the rope, and to allow the same to work easily under peculiar circumstances. Loops *h* also may be formed on the pivoted plate, to prevent the rope from slipping between the sides of the plate *b* and the frame, and thus preventing a proper working of the parts. When the rope is stretched between the pulleys in the ordinary way and it is desired to slacken said rope, the same may be done by pulling on the end *m* or loop *f*, turning the plate *b* upon the pivot *c'*, and thus releasing the rope and allowing the same to draw through. To tighten the rope it is simply necessary to pull the same at *p*, drawing said rope through as far as may be desired. Then, by releasing the rope, the plate automatically closes and holds said rope immovable.

Of course, the device may be employed for other purposes than those specified, and consequently we do not wish to be understood as limiting ourselves to the exact construction shown.

What we claim as new is—

1. The combination, with the frame *a*, having means, *c*, thereon to receive the rope, of a plate, *b*, working therein, having bearings *d d'* lying adjacent to bearings *e e'* on the frame, and having means, as *f g*, adapted to open the plate against the draft of the rope, substantially as shown and described.

2. In combination, the frame *a*, having means *c* therein or thereon, and open to receive the plate *b*, and having bearings *e e'*, and said plate pivoted in said frame and provided with bearings *d d'*, means *f g*, and loops *h h*, all said parts being arranged and operating substantially as and for the purposes set forth and shown.

3. In combination, the frame *a*, having

means, *o*, to receive one end of the rope, roller
e'', and bearing *e'*, the plate *b*, pivoted in said
frame, having the roller *d* and bearing *d'*, and
having means, *f g*, to receive the opposite end
5 of the rope, and loops *h h*, all said parts being
arranged and operating substantially as and
for the purposes set forth.

In testimony that we claim the foregoing we

have hereunto set our hands this 26th day of
December, 1883.

SIMON SEIB.
FRANK SEIB.

Witnesses:

CHARLES H. PELL,
F. F. CAMPBELL.