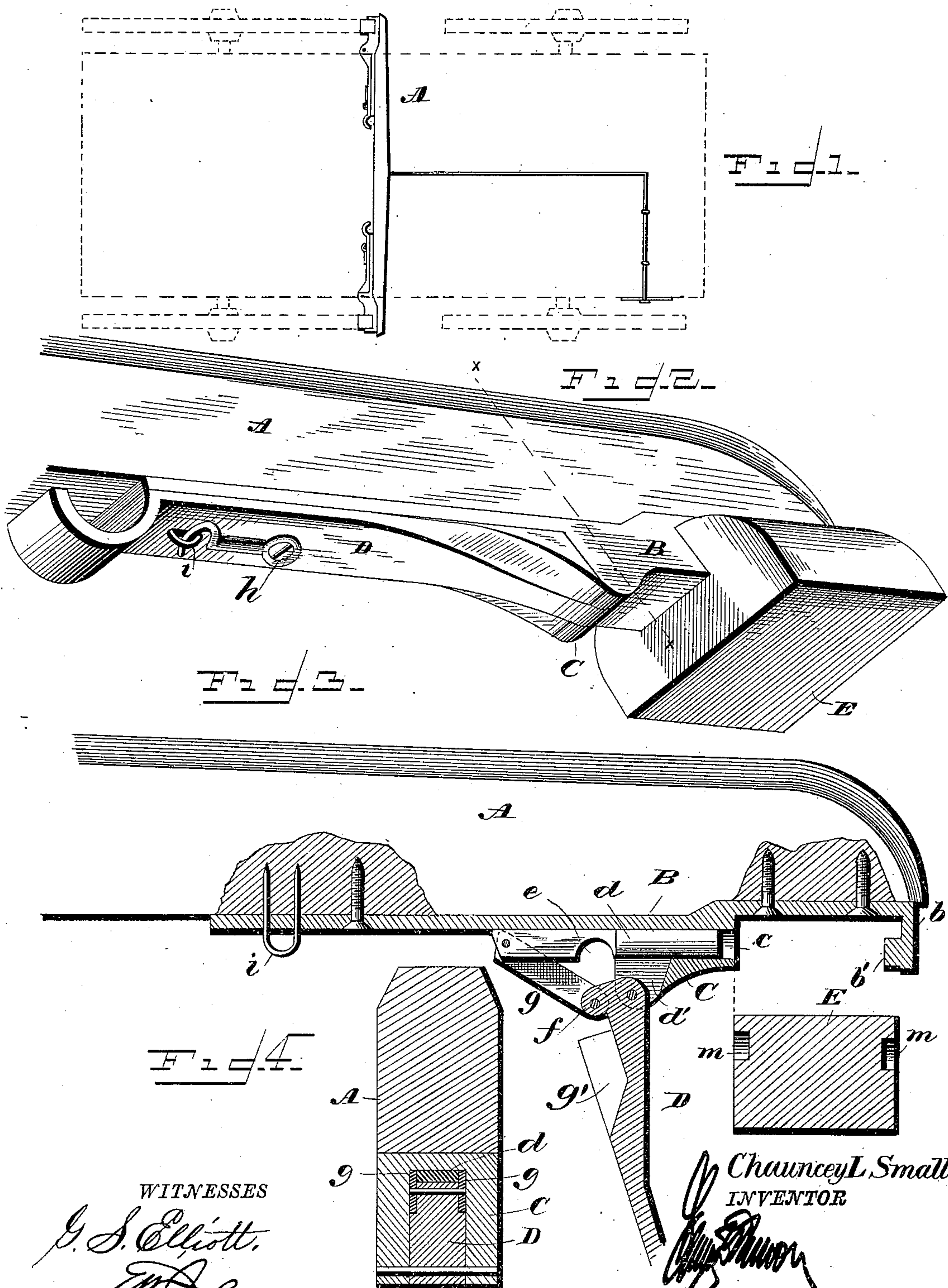


(No Model.)

C. L. SMALL.  
BRAKE BLOCK HOLDER.

No. 355,951.

Patented Jan. 11, 1887.



WITNESSES

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# UNITED STATES PATENT OFFICE.

CHAUNCEY L. SMALL, OF NEW PARIS, PENNSYLVANIA.

## BRAKE-BLOCK HOLDER.

SPECIFICATION forming part of Letters Patent No. 355,951, dated January 11, 1887.

Application filed November 4, 1886. Serial No. 217,993. (No model.)

*To all whom it may concern:*

Be it known that I, CHAUNCEY L. SMALL, a citizen of the United States of America, residing at New Paris, in the county of Bedford and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Holding Brake-Blocks in Place; and I 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 or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in brake-bars for wagons and carriages, the object of my improvement being to provide a cheap and effective means for holding the brake-blocks in place; and with the above end in view my invention consists in providing the brake-bar at its ends with an attachment consisting of a frame, to which is secured a sliding bolt and locking-lever, said bolt being adapted to engage with one of the perforations in the brake-block, while the opposite perforation engages with a projecting nib on the frame, as will be hereinafter fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, which illustrate my invention, Figure 1 is a plan view of a brake-bar, showing my improvement attached thereto and applied to a wagon. Fig. 2 is a perspective view showing my invention applied to a brake-bar. Fig. 3 is a sectional view, and Fig. 4 is a sectional view taken through the line *x x* of Fig. 2.

A refers to the brake-bar, which may be secured to the underside of a wagon-body in the usual manner, so as to be moved longitudinally by a suitable lever, and to the end of this brake-bar my improvements are attached, the outer ends of said brake-bar being cut away slightly, so as to receive the portion adjacent to where the block is attached.

B refers to a casting which is of about the same width as the front edge of the brake-bar, and at its outer edge it is provided with a projecting portion, *b*, which has formed integral therewith an inwardly-projecting nib, *b'*. Opposite to this inwardly-projecting nib the casting B is provided with an enlarged portion, C,

having a perforation, *c*, within which will lie a sliding bolt, *d*. This enlarged portion C is also provided with a recess, *d'*, between the side walls of which is pivoted a handle or lever, D. The forward end of the bolt *d* is preferably cylindrical in cross-section, and adjacent to said cylindrical portion it is provided with a recess, *e*, against which the projecting portion *f* of the lever D will abut or engage, and to said projecting portion of the lever are pivoted straps or links *g*, which are also pivotally attached to the inner portions of the sliding bolt, which is preferably rectangular in cross-section.

The lever D is recessed, as shown at *g'*, so that said recessed portion will lie over the links *g* and the rectangular or inner end of the bolt, and near the outer end of said lever a hook, *h*, is pivoted, which hook is adapted to engage with a staple, *i*, which passes through the end of the casting B into the brake-bar, said staple passing through a slot near the end of the lever D. The extreme end of the lever D is curved outwardly, so as to form a finger-rest for elevating the same. The brake-block E is of the usual shape, and is provided with recesses *m m*, with which the nib *b'* and the sliding bolt *d* engage, so as to hold the same in place.

The casting B is provided with a suitable number of countersunk perforations, so that it may be attached to the brake-bar by ordinary screws.

When it is desired to secure the brake-block in place, the lever D is elevated so as to occupy a position shown in Fig. 3 of the drawings, and the brake-block is then placed in position, so that the nib *b'* will engage with one of the recesses *m* and the other recess will be opposite to the sliding bolt. When the lever D is swung inwardly or toward the brake-bar, the straps *g g*, which are pivoted thereto, will force the sliding bolt outwardly, and after the lever has been depressed for a certain distance the projecting portion *f* thereon will engage with the recess *e* in said bolt, so as to provide double bearings and a large lever for forcing the bolt against the brake-block. When the lever occupies a position parallel with the casting, it may be secured thereto by the hook *h*.

I claim—

1. In combination with a brake-bar, a casting, B, attached to the edge thereof and pro-



vided with an inwardly-projecting nib, a sliding bolt having straps pivoted thereto, said straps being also pivoted to the end of a pivoted lever, locking device for securing the end  
5 of the lever to the brake-bar, and a brake-block having side perforations or recesses, substantially as shown, and for the purpose set forth.

2. In combination with a brake-bar, A, a  
10 casting or metallic frame, B, having an enlarged portion with a perforation for the reception of a sliding bolt, and a recess between which the ends of the lever are pivoted, a sliding bolt, *d*, having straps *g*, pivoted thereto  
15 and to the end of a lever, said bolt having a recess, *e*, and inwardly-projecting nib *b'*, opposite said bolt, and a brake-block with recesses *m*, the parts being organized substantially as shown, and for the purpose set forth.

20 3. In combination with a brake-bar, A, a casting or supporting frame, B, rigidly at-

tached thereto, said casting having at its outer end a projecting portion with an inwardly-extending nib, *b'*, opposite thereto, an enlarged portion, C, having a longitudinal recess, *c*, and  
25 a recess, *d'*, a lever, D, pivoted between the side walls of the recess and provided with a projecting portion, *f*, and a recess, *g'*, straps *g*, sliding bolt *d*, having a recess, *e*, with which the projecting portion *f* of the lever engages, 30  
a hook, *h*, attached near the end of the lever and adapted to engage the staple *i*, said lever being provided with a curved end, and the removable brake-block E, with side recesses, *m*,  
35 substantially as shown, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHAUNCEY L. SMALL.

Witnesses:

ISAAC GORDON,

JACOB K. RIDENOUR.