A. VANDERMARK.

PLATFORM SUPPORT.

APPLICATION FILED MAR. 22, 1909.

944,835. Patented Dec. 28, 1909.

3 SHEETS—SHEET 1.

Fig. 1.

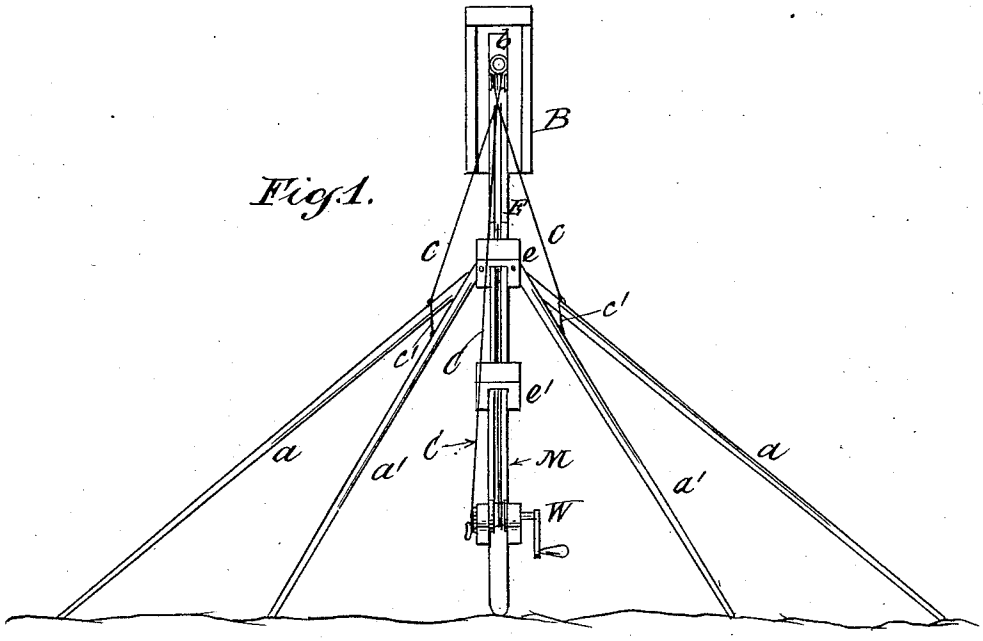
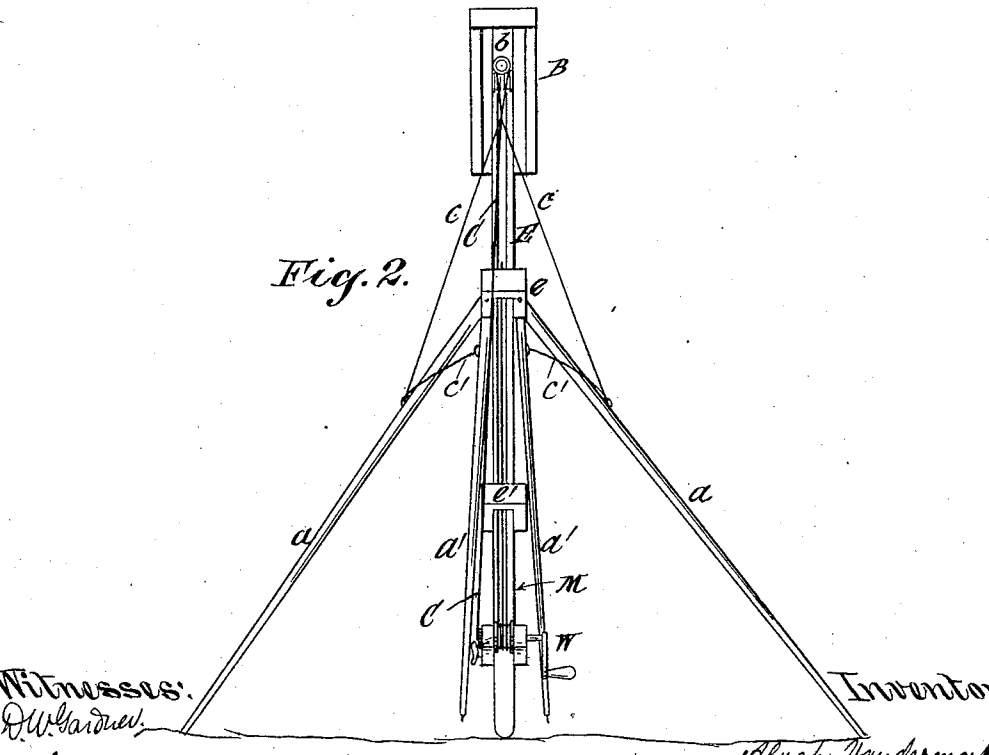


Fig. 2.



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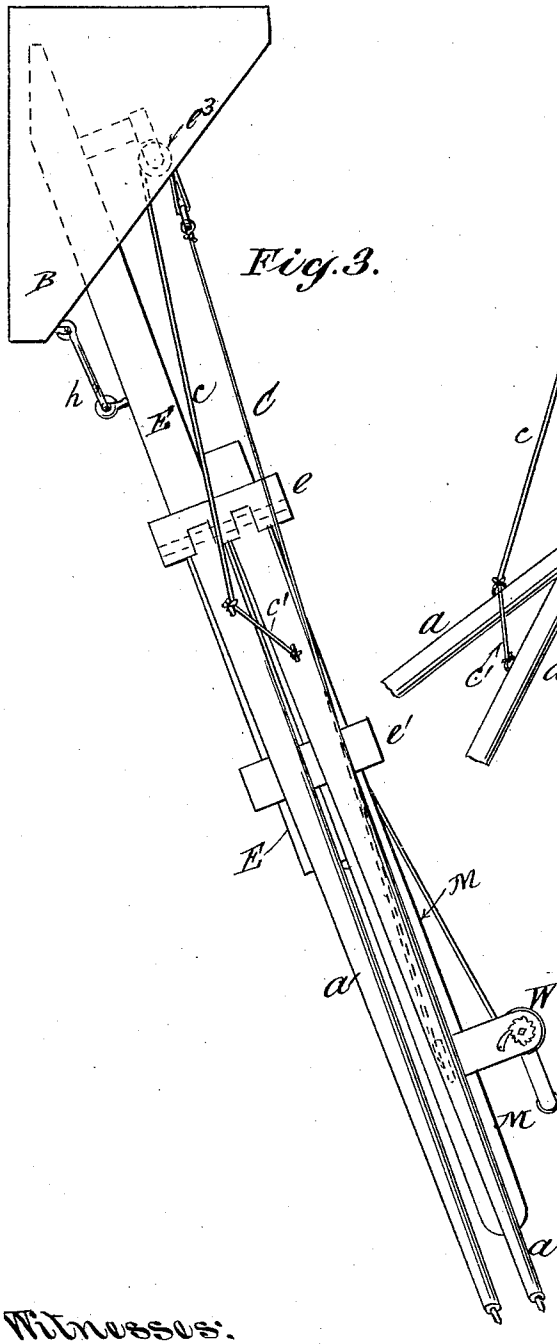

Fig. 3.

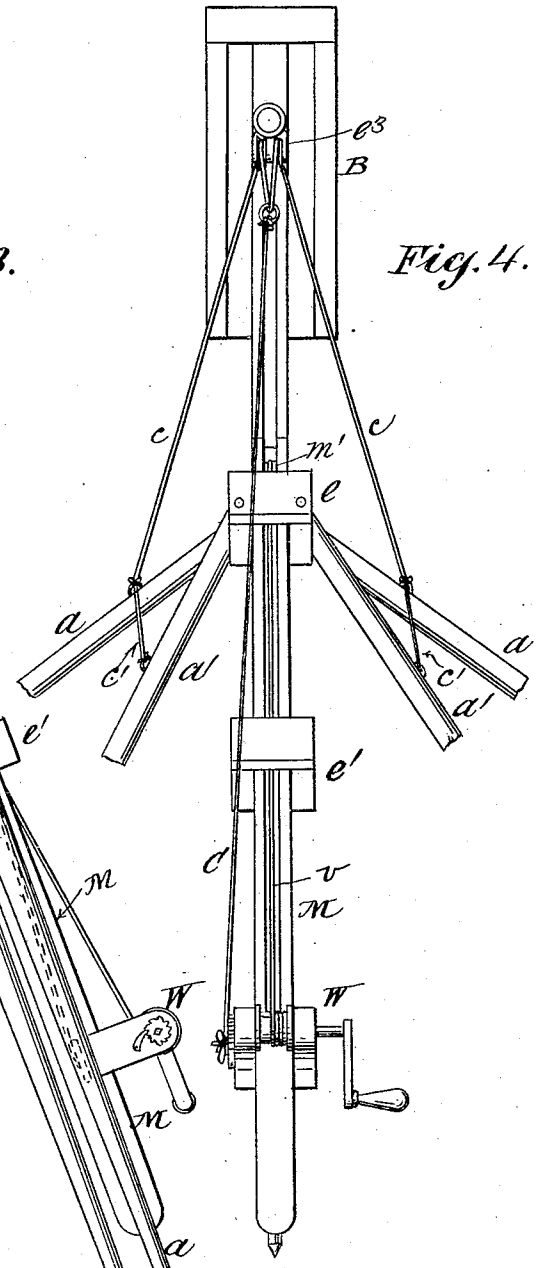

Fig. 4.

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3 SHEETS—SHEET 3.

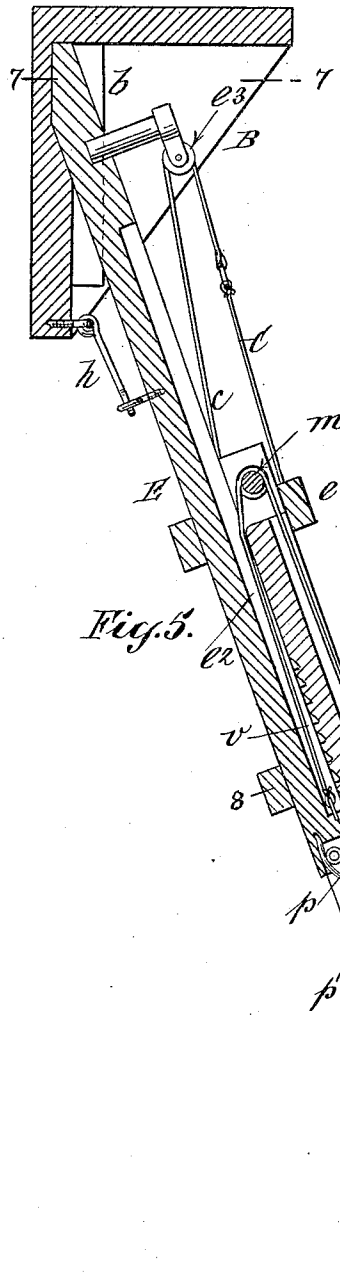


Fig. 5.

Fig. 7.

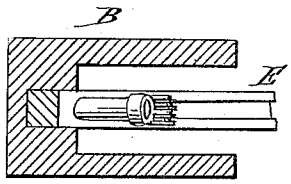
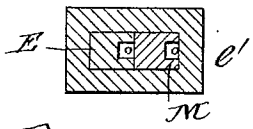


Fig. 8.



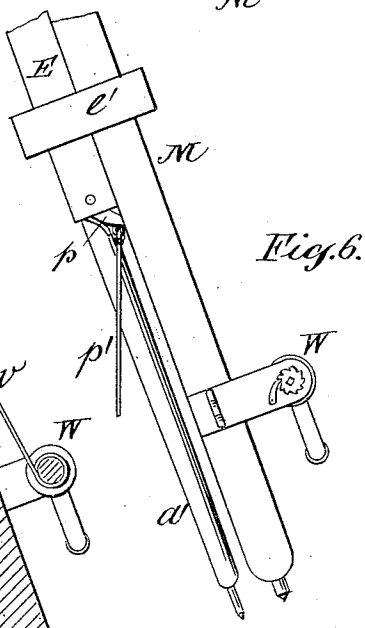


Fig. 6.

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UNITED STATES PATENT OFFICE.

ALVAH VANDERMARK, OF NEWBURGH, NEW YORK.

PLATFORM-SUPPORT.

944,835. Specification of Letters Patent. **Patented Dec. 28, 1909.**

Application filed March 22, 1909. Serial No. 485,128.

To all whom it may concern:

Be it known that I, ALVAH VANDERMARK, a citizen of the United States, residing at Newburgh, Orange county, and State of New York, have invented certain new and useful Improvements in Platform-Supports, of which the following is a specification.

The object of my invention is to afford an adjustable portable, foldable support for platforms,—two or more of the supports being used for each platform as may be required.

In the accompanying drawings, Figures 1 and 2, are front elevations of the main portions of my device, shown in two positions; Fig. 3, is a side elevation upon an enlarged scale, of the device in its lowest position; Fig. 4, is a front elevation of the parts in the same position, the side braces being broken away; Fig. 5, is a vertical sectional elevation upon plane of line 5—5, Fig. 4; Fig. 6, is a side elevation of the lower portion of the device; Fig. 7, is a horizontal section on plane of line 7—7, Fig. 5; Fig. 8, is a horizontal section upon plane of line 8—8, Fig. 6.

The main portion of my improved support consists of a bracket B, mounted removably upon an extension piece E, adjustably mounted upon the main support M, in conjunction with side braces a, a', pivotally connected with the extension piece E, together with mechanism for operating the same, substantially as hereinafter described.

As shown in the drawings these side braces a, a', are pivotally connected to the strap piece e, which is rigidly secured to the extension piece E, and embraces the upper part of the main support M. The extension piece E, also having rigidly attached to it the lower strap e', also embracing the main support M. The extension piece E, is provided at its lower extremity with a spring pawl p, which engages automatically with rack teeth m, on the inner side of the main support M, thereby sustaining the extension piece E, against downward thrust until the spring pawl p, is retracted through the medium of a cord or other mechanical expedient p'.

The upper end of the extension E, is angular in cross section and fits in a correspondingly formed recess b, in the underside of the bracket, which is secured in place on the extension piece E, by means of a hook and eye or other mechanical expedient as illustrated at h, Figs. 3 and 5.

A hoisting rope or equivalent v, is attached to the lower extremity of the extension piece E, resting in a groove e^2, therein, and passing over an idler m', mounted on the upper extremity of the main support M, and down to a windlass W, mounted on the main support M, near its lower extremity. By this means the extension piece E, may be raised upon the main support M, the spring pawl p, acting automatically to permit of the operation of raising,—the windlass W being also preferably used in lowering the extension piece E, when the spring pawl p, has been withdrawn from engagement with the rack m, on the main support m, as hereinbefore described.

The two sets of side braces a, a', are raised or lowered by means of a cord C, to which is attached suspenders c, passing over pulleys e^3, mounted on the upper portion of the extension piece E, the other ends of the suspenders c, being attached to the longer lateral braces a, which are in turn coupled to the shorter lateral braces a', by links c'. By this means the relative positions of the long and short side braces a, a', are maintained until the extension piece E, has been raised to a considerable height, when the shorter side braces a, hang down as in Fig. 2, while the longer side braces a, are in engagement with the ground. The cord C, is used to raise the side braces before effecting an adjustment of the extension piece E, after which the cord is released and the side braces allowed to drop back into position.

It is to be understood that any plural number of brackets B, and their extensible supports E, may be used to sustain a platform as may be found most expedient in practice.

When not in use the bracket may be removed, the extension piece E, slid down over the main support M, and the side braces folded inward. Hence the whole device may be quickly and conveniently applied in use, adjusted to suit the requirements of use, or removed and folded for transportation or storage.

What I claim as my invention and desire to secure by Letters Patent is,

1. In a device of the character designated, the combination of a main support, an adjustable extension piece thereon, a bracket

mounted upon the upper end of said extension piece, means for raising and lowering said extension piece on the main support, short lateral braces pivotally attached to the extension piece, longer lateral braces also pivotally attached to the said extension piece, and means for raising and lowering said lateral braces simultaneously, substantially in the manner and for the purpose described.

2. In a device of the character described, the combination of the removable bracket B, the extension piece E, straps e and e', rigidly secured thereto and embracing the main support M, said main support M, formed with the rack teeth m, the spring pawl p, engaging therewith and mounted on the lower end of the extension piece E, the hoisting rope c, attached to the lower extremity of the extension piece and passing over the idler m', and windlass W, on the main support M, said idler m', and windlass W, the side braces a, a', pivotally connected with the strap e, links c', c', the suspenders c, c, passing over pulleys e^3, on the extension piece E, said pulleys e^3, and the cord C, the whole arranged and operating substantially in the manner and for the purpose described.

ALVAH VANDERMARK.

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