F. W. GROH.

STILT.

APPLICATION FILED OCT. 28, 1920.

1,367,376. Patented Feb. 1, 1921.

FIG. 1.

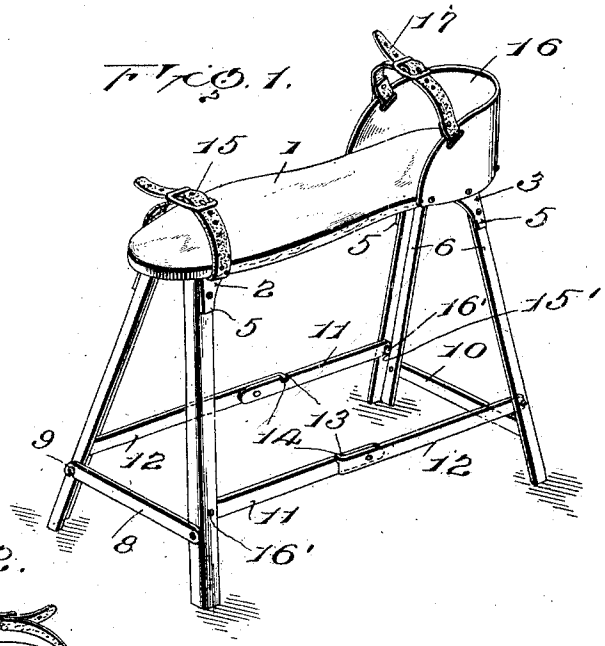


FIG. 2.

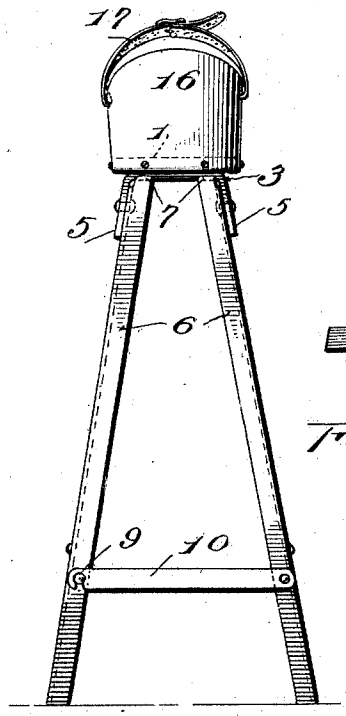


FIG. 3.

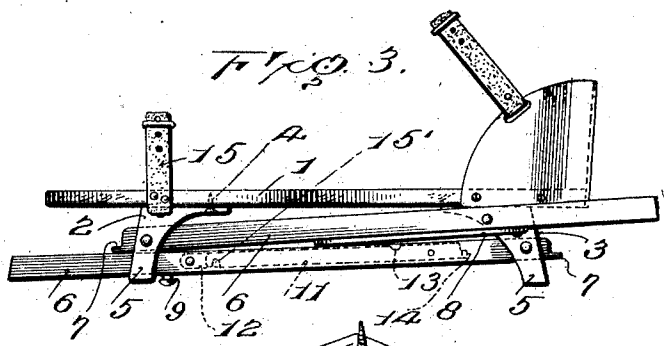
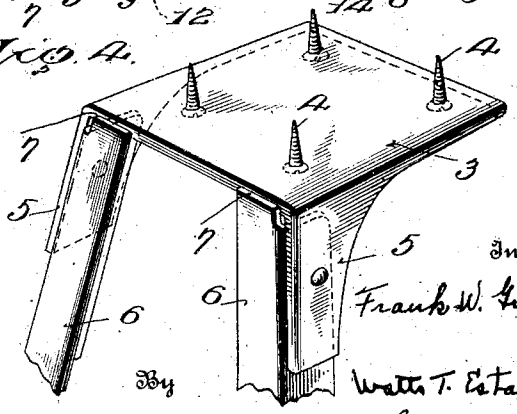


FIG. 4.



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UNITED STATES PATENT OFFICE.

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STILT.

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To all whom it may concern:

Be it known that I, FRANK W. GROH, a citizen of the United States, and resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Stilts, of which the following is a specification.

This invention relates to an improvement in stilts for walking or standing, and for use in crowds whereby it will be possible to view the proceedings over the heads of the other onlookers.

The invention consists of a foot plate with legs attached at each end, together with braces for connecting the legs together for forming a rigid structure when in use.

An object of the invention is to provide stilts for people of different ages, and which may be collapsed or assembled at will, and at the same time of such a size and weight that it can be carried and not be a cumbersome article.

The invention consists of certain novel features of construction and combinations of parts which will be hereinafter described and set forth in the claims.

In the accompanying drawings:

Figure 1 is a view in perspective of the invention;

Fig. 2 is a rear elevation;

Fig. 3 is a view in side elevation showing the invention collapsed; and

Fig. 4 is detail view in perspective showing the manner of attaching the legs or struts to an attaching plate.

In the drawings, 1 represents the foot plate, and 2 and 3 the toe and heel plates, respectively. The foot plate 1, is preferably made of wood, and the metal toe and heel plates are attached thereto by means of screws 4, 4.

The toe and heel plates 2 and 3, are provided with downwardly obliquely extending arms 5, 5. Attached to the arms 5 of the toe and heel plates are legs or struts 6, 6.

The legs or struts 6, are shown constructed of angle irons, but it is evident that the shape or formation may be otherwise. At the upper end of each leg or strut 6 is a lip 7, which is adapted to engage an edge of the toe or heel plate for maintaining the strut or leg in a rigid position. The legs or struts are pivotally attached to the arms 5 and are capable of being folded or swung up against the underside of the foot plate 1, when not in use.

The legs 6 attached to the toe plate 2 are connected together by means of a bar 8 which is pivotally attached to one leg, and the opposite end of the bar is provided with a notch or hook portion adapted to engage a pin 9 on the other leg or strut. A similar bar 10 is attached to legs 6 of the heel plate 3, and fastened in a like manner.

Connecting the legs of the toe and heel plates are links 11 and 12. The links 11 and 12 are pivotally connected together and each link 12 is pivotally connected to a leg or strut 6 and links 11 have hooks 15′ engaging pins 16′. The links are not connected together at their extreme ends, one of the links having the end thereof extending beyond or overlapping the end of the other link, and is provided with a lateral projection 13 which is adapted to enter a notch 14 in the other link, for locking the two links together. In this manner, the legs of the toe plate and heel plate are held apart and the lips 7 of the legs are caused to engage the heel and toe plates, so that the legs are held in a rigid relation with respect to each other, and there is no danger of the device collapsing.

From the foregoing it will be seen that the legs or struts 6 may swing inwardly upon the disengagement of the links 11 and 12, and after the bars 8 and 10 have been released, but their outward movement is limited by the lips 7 engaging the toe or heel plates.

After the links 11 and 12 have been released and the bars 8 and 10 have been disengaged, the links will fold up against one of the legs 6, that is, the links 11 and 12 on each side, will be folded respectively, against a leg 6 and the bars 8 and 10 will be folded parallel with a leg, and after this has been performed, the legs 6 may be swung up beneath the foot plate 1, and the device carried without becoming cumbersome.

A heel brace 16 is attached to foot plate 1 for engaging the foot of the wearer, and straps 17 are attached to the brace 16 adapted to pass about the ankle of the wearer for fastening the stilt in place. A strap 15 is fastened to the foot plate 1, and is adapted to be passed over the foot of the wearer, for fastening the foot to the foot plate.

It is evident that many slight changes might be resorted to in the construction of the device, and in the shape of the parts employed, and it is not the intention to limit

the invention to the precise arrangement and construction of the parts set forth.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A stilt, comprising a foot plate, legs pivotally connected thereto and adapted to be swung beneath the foot plate, and means for connecting the legs together for holding them in a rigid position.

2. A stilt, comprising a foot plate, two legs pivoted at each end thereof, pivoted links for holding the legs apart, and braces for the legs at each end of the foot plate for holding them in a rigid position.

3. A stilt, comprising a foot plate, two legs pivoted at the front and rear ends thereof, braces connected to the front and rear legs for holding them in proper relationship, and links pivotally connected together, and each link having engagement with a leg.

4. A stilt, comprising a foot plate, toe and heel plates connected to the foot plate, arms on the toe and heel plates, legs pivotally connected to the arms, lips on the legs engaging the toe and heel plates for limiting the movement of the legs, and means for pivotally connecting the legs together.

5. In a collapsible stilt, a foot plate and legs, means for connecting the legs to the foot plate, said legs being adapted to be swung beneath the foot plate, and means for holding the legs in a rigid position with respect to the foot plate.

FRANK W. GROH.

Witness:
L. L. LONEY.