M. J. HERWICK.

SCAFFOLD.

APPLICATION FILED FEB. 19, 1920.

1,365,996.

Patented Jan. 18, 1921.

2 SHEETS—SHEET 1.

Fig. 1.

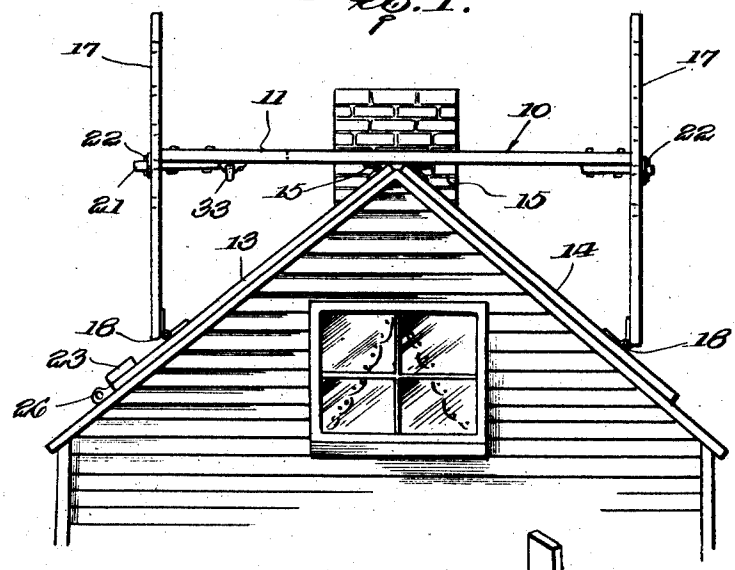
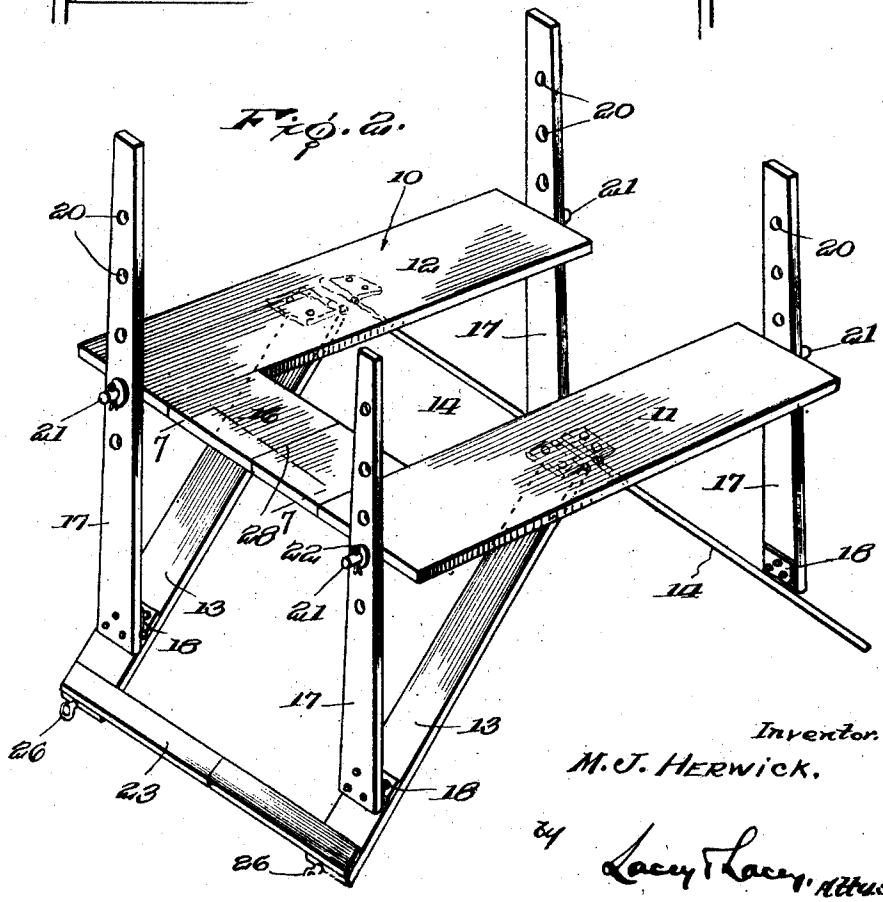


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

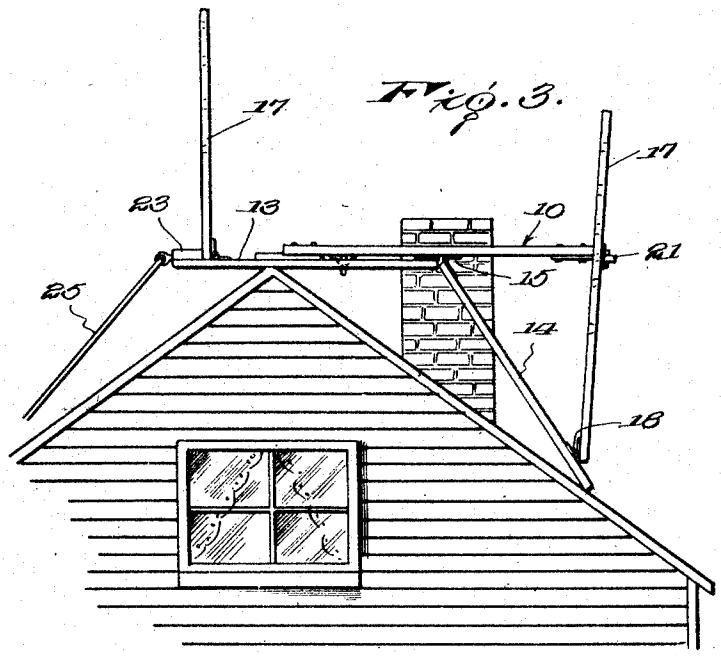


Fig. 6.

Fig. 4.

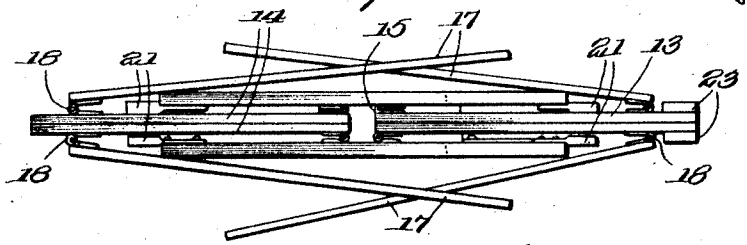


Fig. 5.

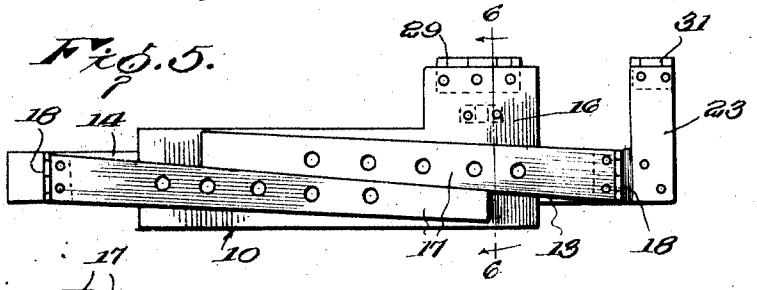


Fig. 6.

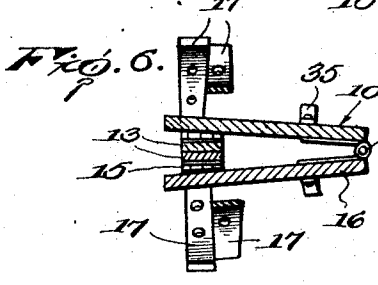
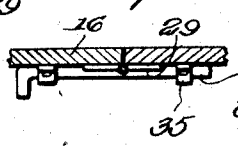


Fig. 7.



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UNITED STATES PATENT OFFICE.

MICHAEL J. HERWICK, OF WOODLAWN, ALABAMA.

SCAFFOLD.

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Application filed February 19, 1920. Serial No. 359,805.

To all whom it may concern:

Be it known that I, MICHAEL J. HERWICK, a citizen of the United States, residing at Woodlawn, in the county of Jefferson and State of Alabama, have invented certain new and useful Improvements in Scaffolds, of which the following is a specification.

This invention relates to improvements in scaffolds of the collapsible type.

An important object of this invention is to provide a scaffold having a longitudinally split platform and legs so arranged that the scaffold may be folded very compactly when not in use.

A further object of this invention is to provide a collapsible scaffold capable of a variety of adjustments so that the same may be employed for supporting chimney builders and other mechanics on the top or the side of a gable roof without the possibility of the scaffold collapsing or becoming accidentally dislocated.

A further object of the invention is to provide a collapsible scaffold having a substantially U-shaped platform so that the platform may be readily arranged about the sides of a chimney whereby the workman may construct the chimney without the possibility of falling from the scaffold as the result of efforts to reach the sides of the chimney.

A further object of the invention is to provide a scaffold of the class described which is simple to set up, durable in use and cheap to manufacture.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of the improved collapsible scaffold mounted centrally upon a gable roof,

Fig. 2 is a perspective of the scaffold,

Fig. 3 is a side elevation of the scaffold applied to one side of the roof,

Fig. 4 is a side elevation of the scaffold collapsed,

Fig. 5 is a plan view of the scaffold collapsed,

Fig. 6 is a vertical transverse section taken on line 6—6 of Fig. 5,

Fig. 7 is a detail section taken on line 7—7 of Fig. 2,

Fig. 8 is a perspective of a hook embodied in the invention.

In the drawings wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 10 designates the platform of the scaffold which, as illustrated in Fig. 2, is substantially U-shaped so that the sides 11 and 12 of the same may be arranged on opposite sides of a chimney. As illustrated in Fig. 2, pairs of braces or legs 13 and 14 are horizontally hinged at their upper ends to the intermediate portions of the sides 11 and 12 through the medium of strap hinges 15. The strap hinges are secured to the under side of the sides 11 and 12 to permit the legs 13 to be positioned in parallel relation to the sides of the platform when the scaffold is folded. The pairs of braces 13 and 14 are adapted to be arranged on opposite sides of the ridge of a gable roof when it is desired to position the platform immediately above the ridge of the gable roof. When applied to a gable roof, as illustrated in Fig. 1, the pairs of legs 13 and 14 lie flatly in contact with the sides of the roof and the sides 11 and 12 of the platform are positioned on opposite sides of the chimney under construction. The sides 11 and 12 of the platform are joined by a connecting portion 16 which is also arranged at one side of the chimney being built so that the workman may stand directly in front of three sides of the chimney and may without inconvenience reach the fourth side of the chimney. A standard 17 is secured to each of the legs 13 and 14 at a point spaced from their lower ends by strap hinges 18 which permit the standards to partake of swinging movements with relation to said legs. When it is desired to fold the scaffold the legs 13 and 14 are of course positioned in parallel relation to the platform and the standards 17 are then folded over upon the upper side of the platform so that the standards occupy a minimum amount of space. The standards 17 are each provided with a plurality of spaced openings 20 adapted to receive studs 21 carried by the ends of the platform, said studs being adapted to receive such fastening devices as cotter pins 22 when it is desired to lock the standards to the ends of the platform. By this construction the legs may

be positioned at the proper angle to conform to the inclination of the gables of the roof and therefore the strain is equally distributed to all parts of the legs. When the scaffold is mounted upon a flat base, such as the ground, the height of the platform may be readily varied by varying the inclination of the legs 13 and 14 and securing the studs 21 to the proper portions of the standards. The lower portions of the legs 14 are joined by a transverse connecting strip 23 which serves to strengthen the connection between the legs and also prevents them from becoming loosened from the hinges 15. The legs 13, of course, are not connected at their lower portions as it is necessary for these legs to pass beyond the sides of the chimney in positioning the scaffold.

With reference to Fig. 3, it will be observed that a scaffold constructed in accordance with this invention may also be employed in connection with chimneys extending through the side of a gable roof at a point spaced from the ridge of the same. In this case the legs 13 are folded directly beneath the platform and the extended end portions of the same are arranged upon the ridge of the gable roof. The legs 14 are arranged at the proper angle to position the platform horizontally so that the working material upon the platform will not fall. The scaffold may be secured in this position by cables 25 anchored at their upper ends to loops 26 carried by the free ends of the legs 13, and at their lower ends to any convenient stationary object. When the scaffold is positioned as illustrated in Fig. 3, the standards 17 carried by the legs 14 are arranged vertically and out of the way of the workman.

When it is desired to use the scaffold in connection with a chimney which is located a considerable distance from the ridge or comb of the roof, the scaffold may be anchored in position by engaging the hook 60, clearly shown in Fig. 8, with the ridge of the roof. The hook 60 is provided with a pair of outwardly diverging bills 61 which are adapted to be extended over the ridge of the roof for securely engaging the same. The hook 60 is also provided with a single rearwardly extending bill 62 which is adapted to be engaged with one of the links of a chain having connection at one end with the loops 26 of the scaffold. By this construction the scaffold may be securely retained in position without the possibility of slipping and knocking over the chimney in case the same is new and not set. In repairing old but set chimneys, the closed end of the scaffold may be engaged with one side of the chimney.

When it is desired to fold the scaffold the legs 13 and 14 are swung into contact with the under side of the platform and the standards subsequently are folded over upon the platform with their adjacent portions overlapped. As illustrated in Fig. 5, the standards 17 have their opposed longitudinal edges extending diagonally with respect to the longitudinal center of the standards so that the standards may be folded without conflict.

When the legs and the standards are adjusted, the platform may be folded upon the line 28. As illustrated in Fig. 2, the platform is split longitudinally so as to form in effect a pair of L-shaped sections. The L-shaped sections thus formed are connected by a strap hinge 29 which allows the L-shaped sections to be positioned as illustrated in Fig. 4. The connecting strip 23 is formed of a pair of sections connected by a strap hinge 31. A sliding bolt 33 is carried by the under side of one of the L-shaped sections of the platform and is extended through a keeper 35 carried by the other L-shaped section for preventing the accidental collapse of the platform. However, it will be noted that the hinges 29 and 31 must be longitudinally alined to permit either the connecting strap 23 or the connecting member 16 to collapse. In the operative position, the hinge pin of the hinge 29 is arranged horizontally and the hinge pin of the hinge 31 is arranged in an inclined position and out of alinement with the hinge 29 so that accidental collapse of the parts is impossible.

With reference to the foregoing description, taken in connection with the accompanying drawings, it will be observed that a scaffold constructed in accordance with this invention is capable of a variety of adjustments to meet different conditions of use and that the scaffold may be readily folded when desired so as to occupy a minimum amount of space.

When the scaffold is used for ground work, such as supporting boards along the side of a building, the upwardly extending portions of the standards serve as an efficient means for preventing the boards from sliding off of the platform. The scaffold may, however, be employed without the use of planks and in this case the workman will stand directly upon the platform.

It is to be understood that the form of the invention herewith shown and described is to be taken as a preferred embodiment of the same and that such minor changes in construction and arrangement of parts may be made as will remain within the spirit of the invention and the scope of what is claimed.

Having thus described the invention, what is claimed as new is:

1. A scaffold including a platform hav-

ing a pair of L-shaped sections, pairs of legs hinged to said platform, standards connected to said pairs of legs, and a locking device extending over the adjacent portions of said L-shaped sections.

2. A scaffold including a collapsible platform having an opening extending out through one end, pairs of legs hinged to said platform, a collapsible strip connecting one pair of said legs, and standards secured to said legs and said platform.

3. A collapsible scaffold comprising a pair of L-shaped hingedly connected sections, a locking device extending over the adjacent portions of said L-shaped sections and adapted for detachably securing the same in an open position, and supporting devices connected to said L-shaped sections.

4. A scaffold comprising a platform inclusive of a pair of L-shaped hingedly connected sections, means for locking said sections in an open position, legs arranged in pairs and connected to said sections, and a strip connecting one pair of said legs and inclusive of a pair of hingedly connected sections.

5. A scaffold including a U-shaped platform, pairs of legs hinged to said platform, said platform being split longitudinally thereby forming a pair of L-shaped sections, a bolt carried by one of said L-shaped sections, a keeper carried by the other L-shaped section and adapted to receive said bolt, and a connecting strip joining one pair of said legs.

6. A scaffold including a longitudinally split platform provided with a pair of sections, pairs of legs hinged to said platform, standards hinged to said legs, means to connect said standards to said platform, a strip connecting one pair of said legs and comprising a pair of hingedly connected sections, and means whereby the sections of said platform may be locked together.

7. A scaffold including a U-shaped platform having spaced parallel sides and a transverse connecting portion comprising a pair of hingedly connected sections and means to lock the sections in an open position whereby the sides of the platform are disposed in the same plane, and legs supporting the platform.

8. A collapsible scaffold including a U-shaped collapsible platform having a pair of sections hingedly connected on a line longitudinal of said platform and an opening extending out through one end of said platform for receiving a chimney, means whereby the sections of the platform may be locked in an open position, and legs secured to said platform.

In testimony whereof I affix my signature.

MICHAEL J. HERWICK. [L. S.]

Witnesses:

ROE F. POWELL,

J. E. RHODES.