(No Model.)

M. KING.

ADJUSTABLE SCAFFOLD.

No. 522,526. Patented July 3, 1894.

Fig. 1.

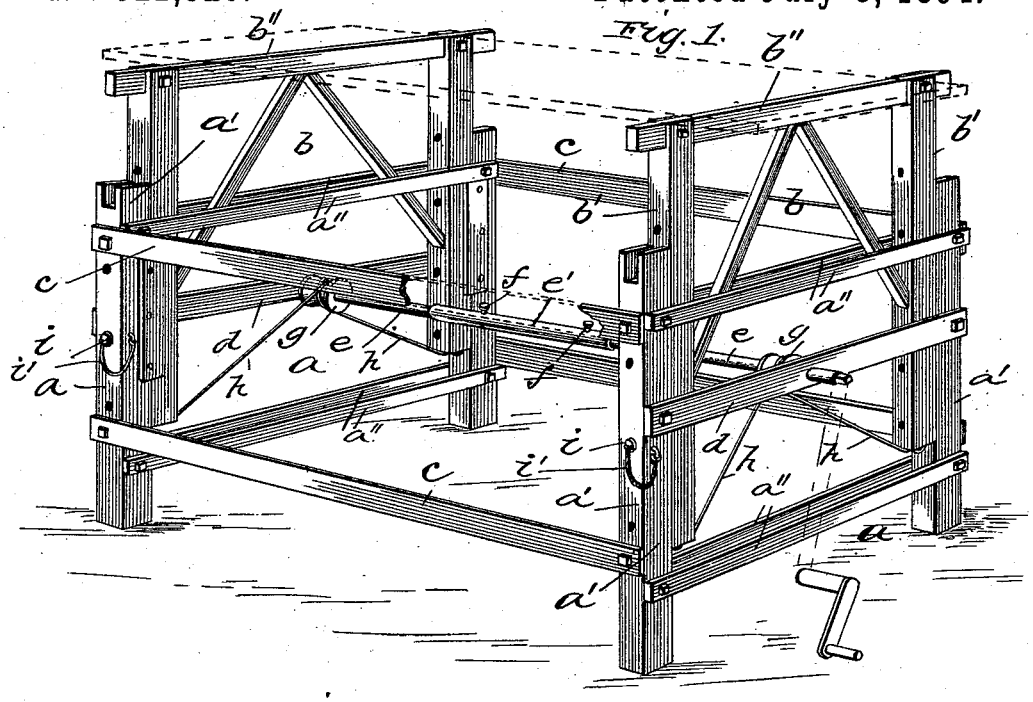

Fig. 2

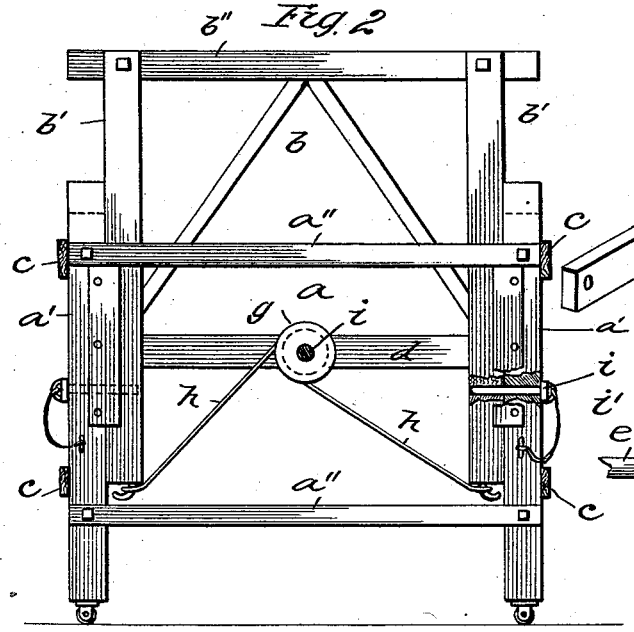

Fig. 4.

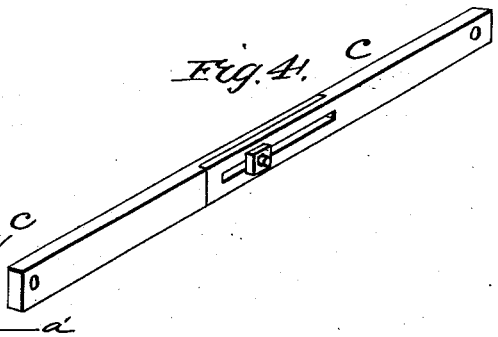

Fig. 3.

Witnesses
E. J. Lenssen.
W. Harvey Murray.

Inventor
Monroe King
By Alexander & Davis
Attorneys.

UNITED STATES PATENT OFFICE.

MONROE KING, OF PRINCETON, INDIANA.

ADJUSTABLE SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 522,526, dated July 3, 1894.

Application filed June 17, 1892. Renewed June 7, 1894. Serial No. 513,833. (No model.)

To all whom it may concern:

Be it known that I, MONROE KING, a citizen of the United States, residing at Princeton, in the county of Gibson and State of Indiana, have invented certain new and useful Improvements in Adjustable Scaffolds, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a new and improved extensible scaffold; and it has for its object to provide a scaffold of simple construction, which may be readily raised or lowered, and extended in length when desired.

In the drawings: Figure 1 is a perspective view of my improved scaffold. Fig. 2 is a transverse vertical sectional view. Fig. 3 is a detail sectional view of a portion of the extensible operating shaft; and Fig. 4 is a detail of an extensible side bar.

Referring to the drawings *a*—*a* designate the end frames of my scaffold which are composed of the posts *a'*—*a'*, connected by the cross-bars *a''*—*a''*. These cross-bars are secured to both sides of said posts, and form guides for the vertically movable frames *b*, *b*. These vertically movable frames are composed of the vertical posts *b'*—*b'*, whose outer sides bear against the inner sides of the posts of the stationary frames, and the upper horizontal cross-piece *b''* which is secured to the upper ends of the posts *b'*—*b'*—suitable braces being provided to hold the vertical posts rigid.

The upper ends of the posts *a'* of the stationary frames are recessed as shown in Fig. 1, to receive the extended ends of the cross-bars *b''*—*b''* of the movable frames when said frames are lowered. The object of this is to protect the ends of the cross-bars of the movable frames—when moving the folded scaffold. This construction also renders the end frames more rigid when the scaffold is folded. The stationary end frames are connected and held in an upright positition by the side bars *c*—*c*, said side-bars being removably secured to the end post of the stationary frames for a purpose hereinafter described.

To the outer sides of the posts of the stationary frames, at a suitable point thereon, are secured cross-bars *d*—*d*, in the center of which is journaled the extensible operating shaft *e*. This shaft extends lengthwise of the scaffold and is formed of two sections of equal length connected by a sleeve *e'*, the two sections of the shaft being adjustably held in said sleeve by means of two set-screws *f*—*f* tapped through the sleeve, one set-screw bearing on each section of the shaft. On the shaft *e*, and near the inner sides of the cross-bars *d* are rigidly secured drums *g*, and to these drums are secured cords or chains *h* whose other ends are removably secured to the under side of the lower ends of the posts of the movable frames.

The operating shaft is extended beyond the cross-bars *d* and have squared ends over which may be placed the end of a crank for revolving said shaft.

When the operating shaft is revolved, the cords *h* will be wound on the drums *g*—*g* and the movable frames raised as is evident.

To hold the movable frames in their raised position I provide pins *i* which are passed through holes in the posts of the stationary frames, and extend into corresponding holes or recesses in the adjacent sides of the posts of the movable frames. A series of these holes is provided in order that the movable frame may be held in its various adjusted positions. The pins *i* are secured to the posts *a'* by means of cords or chains *i'* in order that they will always be in position for use, and will not become misplaced.

When it is desired to extend the scaffold in length the side-bars *c* are removed, and bars of a greater length secured to the posts in their stead; or an extensible bar shown in Fig. 4 formed of two pieces, slotted at their overlapping ends and adjustably secured together by a bolt, may be used, and adjusted to correspond to the adjustment of the operating shaft. It will thus be seen that I provide a scaffold of simple construction which may be adjusted in length and height, and which may be securely locked in its adjusted positions. Another advantage of my improvement is that my scaffold may be readily taken apart, which facilitates the moving of the scaffold from room to room when it is used in buildings for any of the various purposes requiring scaffolding.

As shown in Fig. 2 of the drawings the posts of the stationary frames may be provided at

their lower ends with casters or rollers, to facilitate the moving of the scaffold from place to place.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. An extensible scaffold consisting of stationary end frames, vertically movable frames supported by the stationary frames, bars secured to and connecting the posts of the stationary frames and forming guides for the movable frames, an extensible shaft mounted centrally in the stationary frames and means for revolving said shaft, cords or chains secured at one of their ends to said shaft, their other ends being secured to the lower ends of the movable frames, means for securing the movable frames in their raised position and extensible side-bars connecting the stationary frames, substantially as described.

2. An extensible scaffold consisting of a longitudinally adjustable frame, vertically movable frames supported by said stationary frame, an operating shaft journaled in the stationary frame, said shaft consisting of two sections adjustably connected by a sleeve and set screws, cords secured at one of their ends to the shaft at each end thereof, the other ends of said cords being secured to the lower ends of the posts of the movable frames, removable pins adapted to pass through one of a series of holes in the posts of the stationary frame, their inner ends entering one of a series of holes formed in the posts of the movable frames, and means for revolving the operating shaft, substantially as described.

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

MONROE KING.

Witnesses:
GEORGR A. LAND,
EDWARD E. SHARPE.