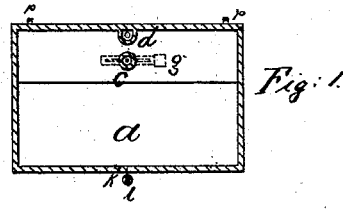
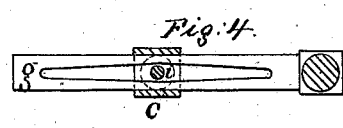
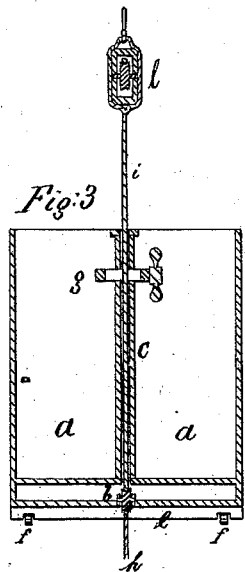
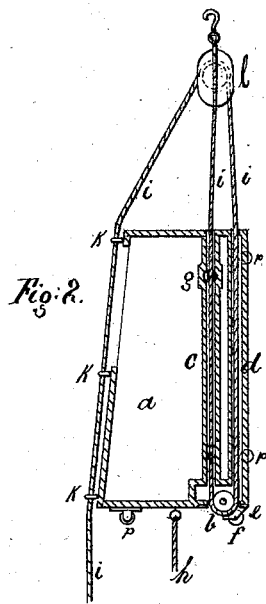


C. L. BEHRENS.
 FIRE-ESCAPES AND HANGING-SCAFFOLDS.

No. 194,322.

Patented Aug. 21, 1877.



Witnesses:
 Chas. L. Tuttle
 J. S. Clamm.

Inventor:
 Carl L. Behrens.

UNITED STATES PATENT OFFICE.

CARL L. BEHRENS, OF DAVENPORT, IOWA.

IMPROVEMENT IN FIRE-ESCAPES AND HANGING SCAFFOLDS.

Specification forming part of Letters Patent No. **194,322**, dated August 21, 1877; application filed May 28, 1877.

To all whom it may concern :

Be it known that I, CARL L. BEHRENS, of the city of Davenport, in Scott county, and State of Iowa, have invented a Hanging Scaffold or Life-Preserver, of which the following is a specification:

This invention consists in certain novel features hereinafter more fully set forth.

The object of my invention is to make a hanging scaffold to be used as a life-preserver in case of fire, or as a scaffold for painters, by combining a box, *a*, with a pulley, *b*, at the under side, and the vertical cylinders *c* and *d*, for the ropes to pass through, and fastening the rope *i* to, and lead it over a pulley, *l*, above, fastened to the top of windows or otherwise, as shown in Fig. 2 of the accompanying drawing.

The scaffold is illustrated in the horizontal section, Figure 1, and the vertical sections, Figs. 2 and 3.

The hollow cylinders *c* and *d* are fastened at the upper and lower ends of the box. Cylinder *c* is provided with the slotted pin *g*, which is shown on larger scale in Fig. 4, and is used to stop the motion of the box by pressing the rope in between its sides. The beveled pieces *e*, with the rollers *f f* at the lower rear edge of the box, are to lead the box over

small projections in its downward direction. In order to lead the box over larger projections, the rope *h* is attached to the under side of the box. The remaining rollers *p* are attached for easier moving.

In case the box is pulled up or down from below, the bearing-rope *i*, led through the cramp-irons *k k*, will keep the box steady.

It will be evident that, if the rope is led through the cylinders *c* and *d* and over the pulley *b* in the lower side of the box, and attached to the pulley *l* above, the scaffold can be easily moved up and down, and that the beveled piece *e*, with the rollers *f f*, will lead the box over small projections in its downward direction.

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

The combination of the hanging box *a*, cylinders *c d*, the former provided with a movable slotted pin, *g*, pulley *b*, rollers *f f*, and rollers *P P*, ropes *h i*, and cramp-irons *K K*, all constructed as shown and described.

CARL L. BEHRENS.

Witnesses:

CHAS. LE FLAHE,
F. G. CLAUSEN.