

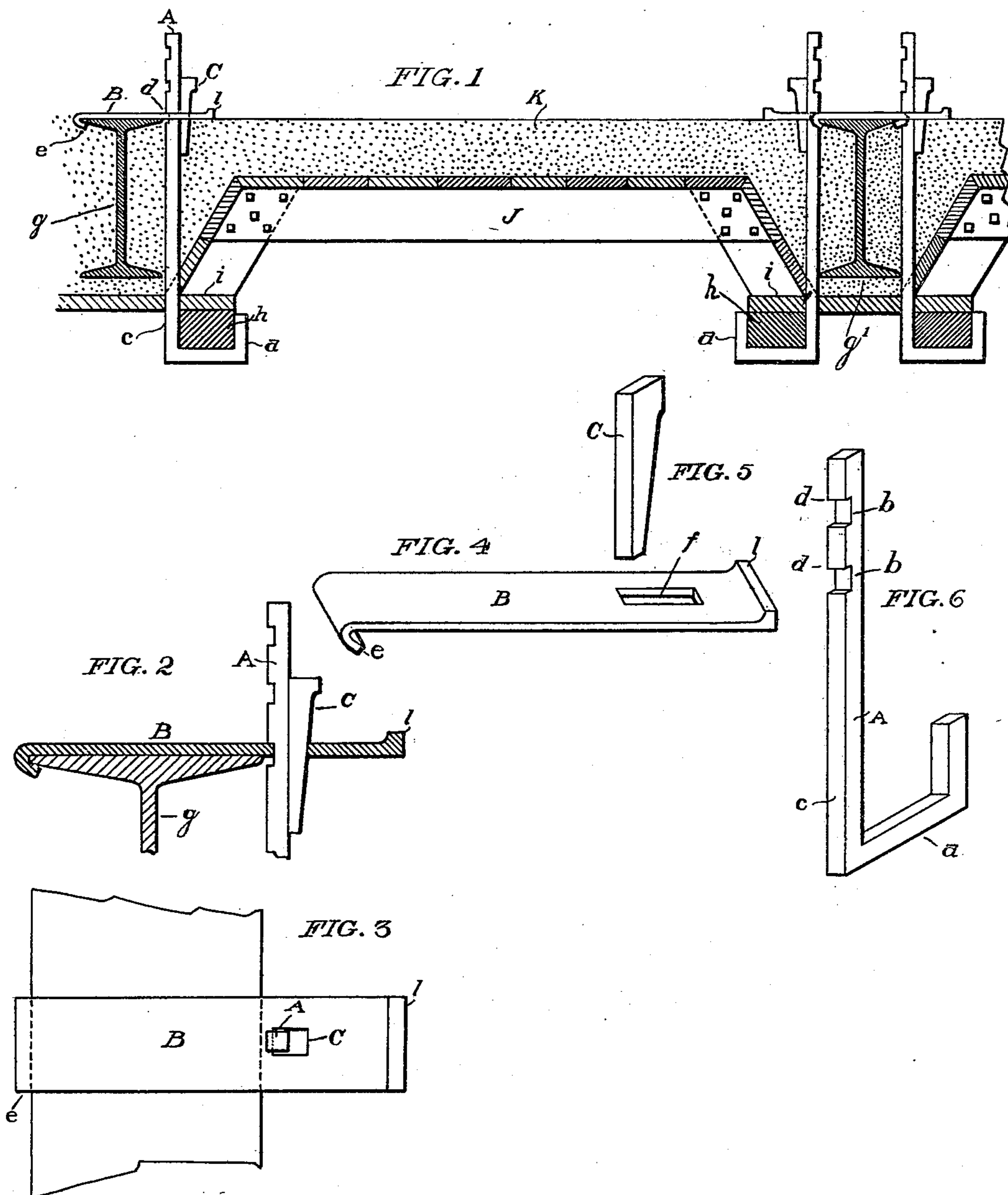
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Patented Dec. 24, 1901.

C. H. SCAMMELL.
HANGER APPARATUS.

(Application filed Dec. 10, 1900.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

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HANGER APPARATUS.

SPECIFICATION forming part of Letters Patent No. 689,420, dated December 24, 1901.

Application filed December 10, 1900. Serial No. 39,302. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. SCAMMELL, a citizen of the United States, and a resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Hanger Apparatus for Use in Sustaining Temporary Staging, &c., of which the following is a specification.

My invention relates to temporary staging, platforms, or false work, and especially such staging as is used commonly in placing fireproof flooring between metal floor-beams and sustaining it until it becomes set or self-supporting; and the object of my invention is to produce a simple and efficient hanger and its appurtenances which may be quickly and easily removed when the floor becomes self-supporting without disturbing, heaving, or injuring the flooring.

In the accompanying drawings, illustrating my invention, Figure 1 is a vertical cross-sectional view showing my improved hangers in position sustaining a temporary staging whereon has been laid a concrete floor. Fig. 2 is a cross-sectional view of a portion of one of the metal I-beams of the floor with my improved hanger attached thereto and illustrated on a larger scale than is shown in Fig. 1. Fig. 3 is a top view of the matter illustrated in Fig. 2. Fig. 4 is a perspective view of the strap forming a part of my improved hanger. Fig. 5 is a perspective view of the key, and Fig. 6 is a perspective view of the hanger proper.

In the drawings, A is the hanger, B the strap, and C the key. The hanger A is composed, preferably, of iron or steel and has a lateral projection *a* at its lower end and is provided with one or more notches *b* on the front face of its shank *c*, whereby shoulders *d* are formed within the other face of the shank. The strap B, also made preferably of iron or steel, has formed at one end a hooked portion *e*, and toward the other end thereof is perforated by a slot *f*. This slot *f* is of a sufficient size to receive the shank *c* of the hanger A and the key C of wedge form.

When it is desired to erect and sustain a temporary staging beneath the floor-beams of a building where is to be laid the concrete

or other fireproof flooring, the apparatus is adjusted and assembled as shown in Fig. 1. In the illustration Fig. 1 I have shown my improved apparatus in use to sustain a temporary staging whereon is laid a fireproof flooring of cement or concrete, and, as will be seen by said figure, the straps B are hooked over one side of the flange of the I-beams *g g'*. This so disposes the slot *f* in the strap B as to carry the end of the slot *f* toward the hooked portion *e* of the strap slightly beyond the edge of the flange of the beam *g*. The shank *c* of the hanger A is then passed up through the slot *f*, and the same is so adjusted relatively to the strap B that one of the shoulders *d* on the shank of the hanger is passed over the end of the slot *f* and finds its support on the strap B. The key C is then driven in through the slot to hold the shank of the hanger A firmly in its place and prevent the shoulder *d* from slipping off the strap. The same thing is done with a similar hanger, strap, and key on the beam *g'*, and the process is thus indefinitely continued. When a sufficient number of hangers A are properly placed upon the beams, as described, the scantlings *h* are placed within the hooks or lateral projections *a* of the hangers and sustained thereon, and preferably other scantlings or like timbers are placed crosswise of the scantlings *h*, and on these latter scantlings *i* are placed and supported trusses *j*, which are so floored or covered as to form a staging, which fills the spaces between the floor-beams of the building, as shown in Fig. 1. This done the cement or other fireproof material *k* is laid upon such temporary staging in the usual manner and allowed to dry and stiffen until it becomes self-supporting. When it is desired to remove a temporary staging whereon the fireproofing has been laid and supported, the keys C are struck up or removed from their seats in any usual manner, and the straps B are then tapped on their ends *l*, which are preferably slightly upset to afford a better striking-surface, and their hooked ends *e* are dislodged from beneath the edge of the flange of the floor-beams, and at the same time the support of the hangers A is removed from beneath the shoulder *d* thereof, whereupon the shanks *c* of the hanger are easily driven or pulled down through the

cement or other fireproofing and the temporary staging is allowed to fall or is removed from beneath the fireproofing.

It will be seen that the hanger apparatus
5 above described may be entirely removed after the concrete or other fireproofing becomes self-supporting without in the least degree disturbing the same or any part thereof, a great desideratum in such work.

10 As will be readily understood, the hanger A may be provided with but a single notch b; but I prefer to provide several such notches to enable the hanger to be used on beams of varying depths of web.

15 Having thus described my invention, I claim—

1. A hanger comprising a shank having a lateral projection at its lower end and a shoulder on its upper portion, a strap having a
20 hook at one end to engage the flange of a floor-beam and an opening at the opposite end to receive said shank, and a key engaging said opening adjacent to said shank, whereby the shoulder on the shank is forced into engage-

ment with the strap at the edge of the open- 25
ing.

2. A hanger comprising an L-shaped upright provided with a shoulder at its end, a longitudinal strap having a hook at one end and an opening at the other to receive said
30 upright, and a wedge-shaped key engaging said opening to force said shoulder into engagement with the strap at the edge of the opening.

3. A hanger comprising an adjustable L- 35
shaped upright provided with a series of shoulders at its end, a longitudinal strap having a hook at one end and an opening at the other to receive said upright, and a wedge-shaped key engaging said opening to force
40 said upright against the side of said opening whereby the adjacent shoulder will engage the strap at the edge of the opening.

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Witnesses:

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