

(No Model.)

P. HEWITT.
STOCK RACK.

No. 491,886.

Patented Feb. 14, 1893.

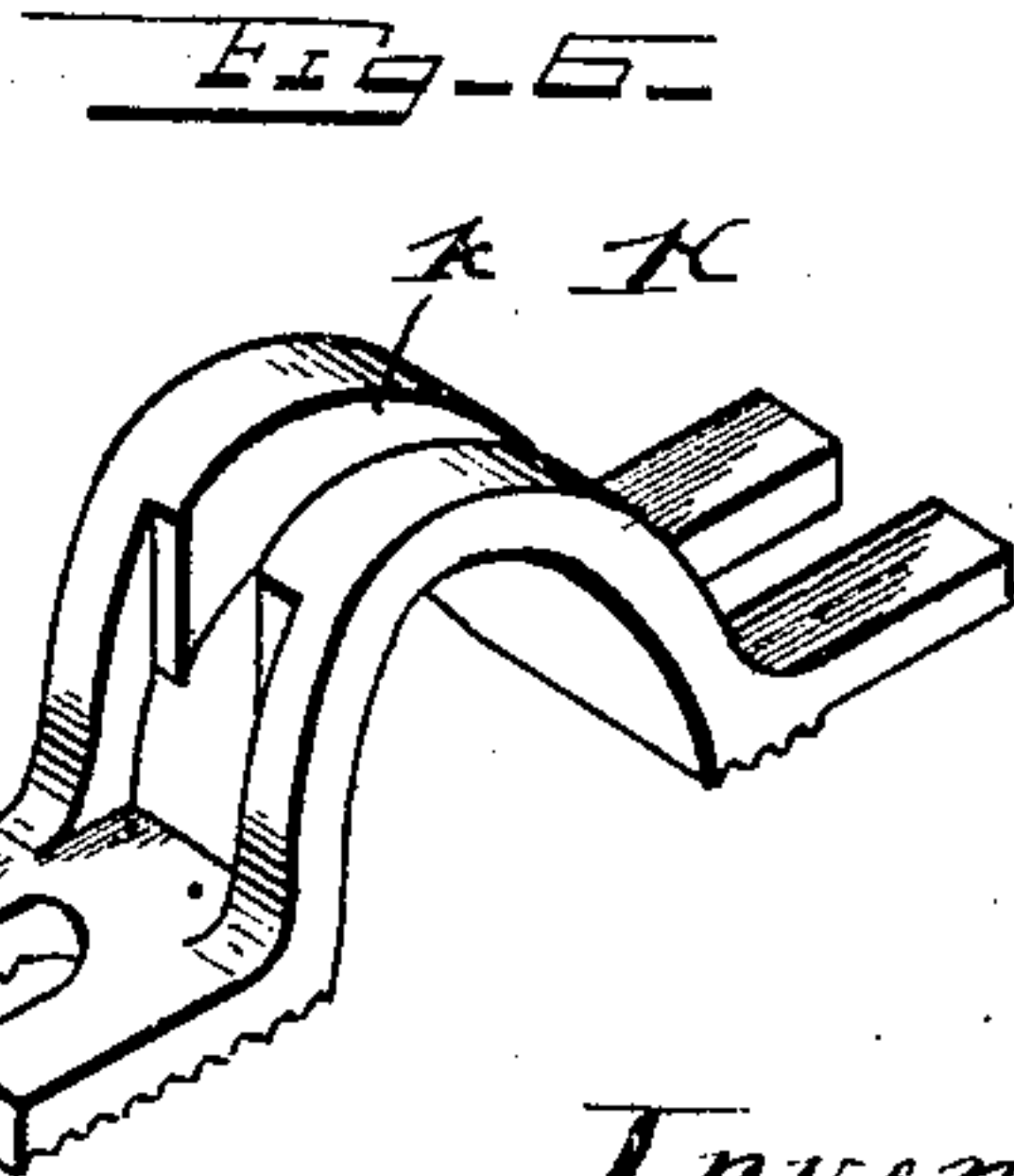
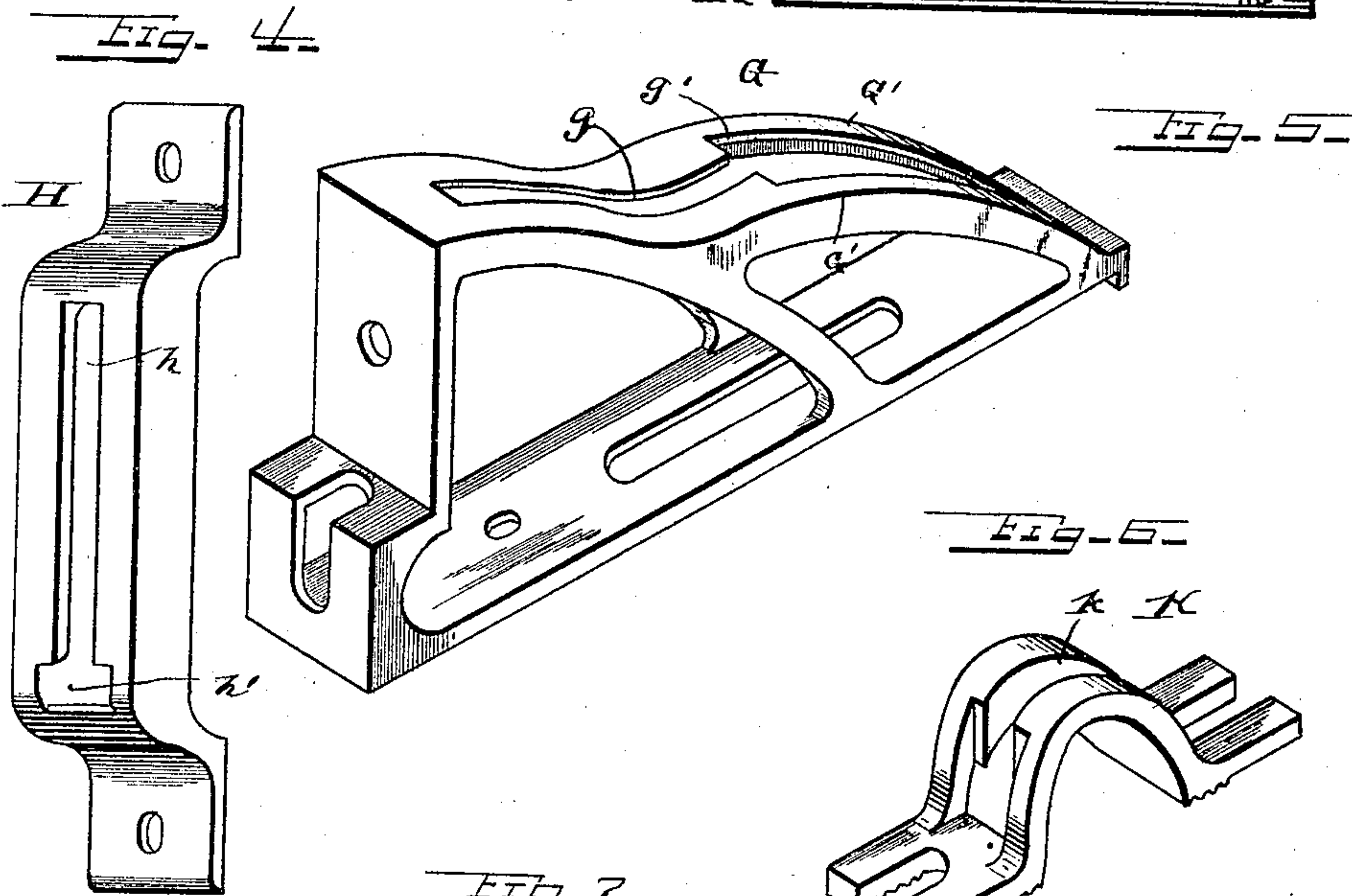
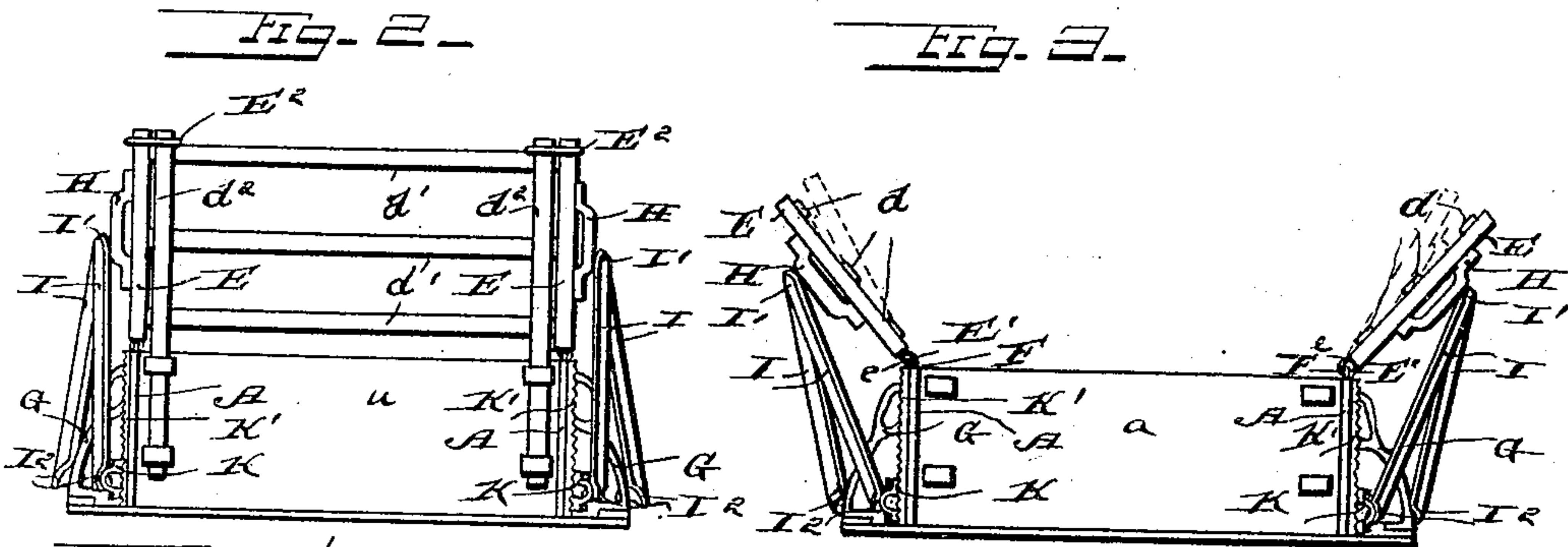
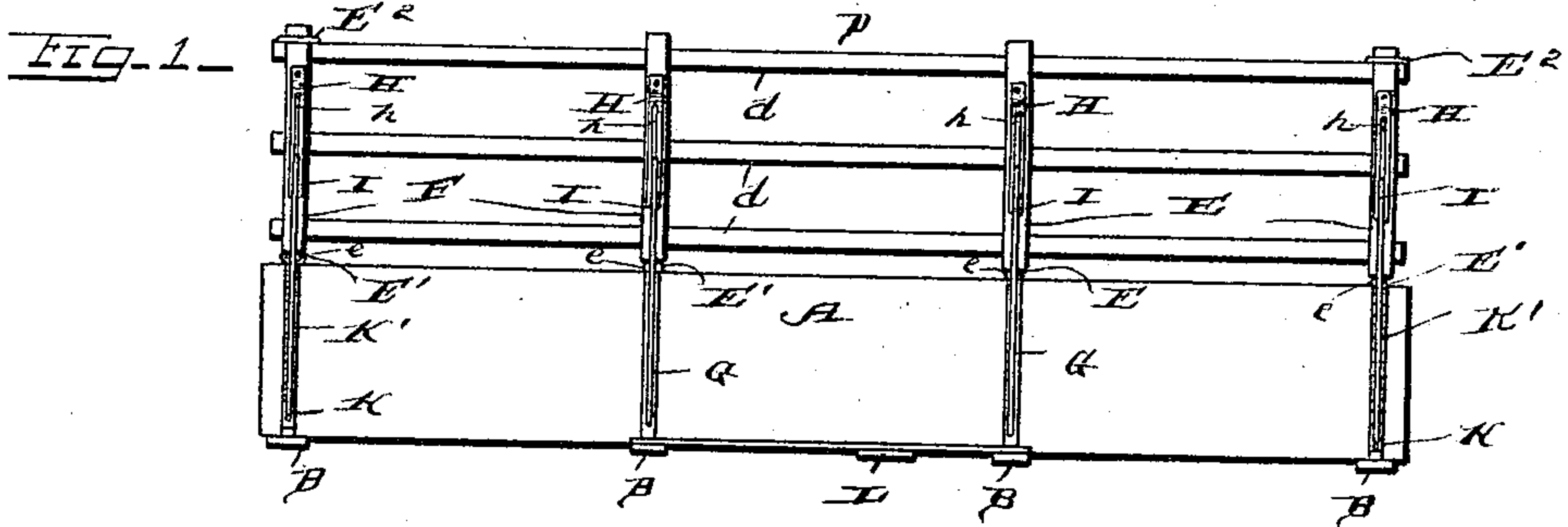
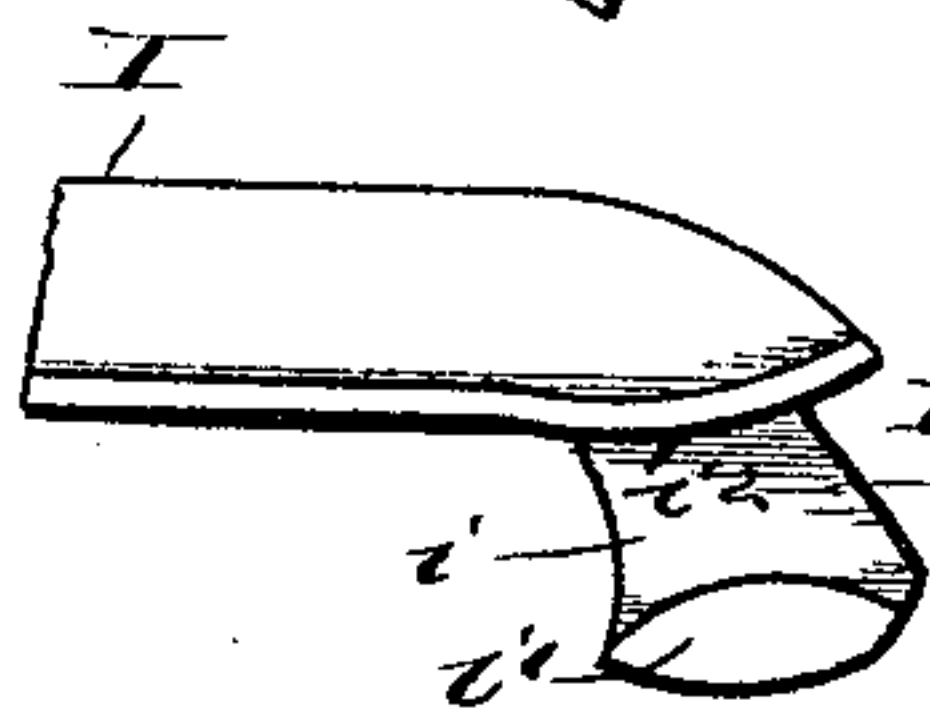
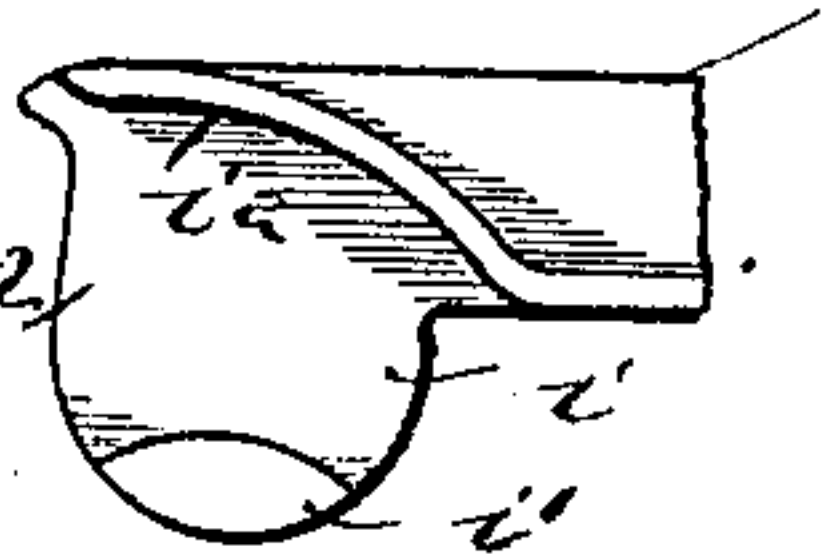


FIG. 7.

Witnesses:
Jesse Heller.
Phileas Masi.



Inventor:
P. Hewitt
by E. W. Anderson
his Attorney.

UNITED STATES PATENT OFFICE.

PHILANDER HEWITT, OF CAMBRIA, MICHIGAN.

STOCK-RACK.

SPECIFICATION forming part of Letters Patent No. 491,886, dated February 14, 1893.

Application filed June 18, 1892. Serial No. 437,204. (No model.)

To all whom it may concern:

Be it known that I, PHILANDER HEWITT, a citizen of the United States, and a resident of Cambria, in the county of Hillsdale and State of Michigan, have invented certain new and useful Improvements in Stock-Racks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side elevation of one of the sides. Figs. 2 and 3 are end views of the rack in different positions. Fig. 4 is an enlarged view of one of the plates. Fig. 5 is an enlarged view in perspective of bracket casting and Figs. 6 and 7 are detail views of
20 brackets and heads respectively.

This invention has relation to certain new and useful improvements in stock racks, and it consists in the novel construction and combination of parts, all as hereinafter specified.
25 The invention more particularly relates to that class of stock racks shown and described in the patent to Young, dated April 27, 1886, Serial No. 340,966, upon which it is designed to be an improvement, the object being to
30 simplify the construction, and facilitate the adjustment of the parts for the different purposes for which the rack is intended.

With these objects in view, the invention more particularly consists in the means employed for connecting and supporting the rack
35 upon the body and bed of a vehicle.

In the accompanying drawings, the letters A, A, designate the sides of a wagon bed, and a, a' the front and rear end gates thereof. B, B, &c. designate the bottom battens. All of
40 said parts are arranged in the usual manner, and may be of any suitable width, as may be desired.

D designates the rack, which is formed of slats, and consists of the side portions d , d , and end portions d' , d' . The slats forming the sides d , d , are secured to the vertical arms or standards E, E, having secured to their lower portions castings E' formed with hooks
50 e, which loosely engage eye-bolts F in the sides A, A, forming a hinge connection be-

tween the parts. The slats forming the ends d' , d' are secured to posts d^2 , one at each side which are removably secured to the end gates or to the body. The posts d^2 as well as the
55 end arms of the standards E, E, at each side, are extended a short distance above the upper edge of the rack, and are connected by means of the links E².

Secured to each of the projecting ends of 60 the intermediate bottom battens B, B, and to the sides A, A, are the bracket castings G, in the outer arms G' of which are formed elongated slots g . Bolted to the outer faces of the arms or standards E, E, are plates H hav- 65 ing therein each an elongated vertical slot h , and each plate H is connected with the respective bracket G by means of a brace arm I. Said arms I at each end are formed with inward projections or heads I', I², which re- 70 spectively loosely engage the slots g and h , in such a manner as to be capable of both a vertical and an oscillating movement therein. This is effected by forming on each head the reduced portion i , lying between the outer 75 shoulders i' , and the inner shoulders i^2 and which work loosely between the walls of the slots, the said shoulders limiting the oscillating movement in either direction.

It will be seen that by adjusting the posi- 80 tions of the heads I', I² in the slots g and h , the vertical and angular adjustment of the sides of the rack may be effected, according to the character of the load which it is to carry.

Above the central portion of the slots g , g , 85 are formed the outward offsets or shoulders g' , with which the heads I' engage when the sides are at their greatest outward angular adjustment. Above these shoulders or off- sets the slots are of greater width, to permit 90 the insertion or removal of the braces.

At the lower ends of the slots h in the plates H is an enlarged portion h' , through which the head I² may be inserted or removed.

At the corners, in place of the brackets G, 95 described, I prefer to use the small brackets K, having therein an arcuate slotted portion k . This bracket is adjustably secured to a plate K' on the corner posts of the body, the meeting faces of the plates being transversely 100 serrated, either wholly or in part. The heads I² on the end braces are designed to engage

the slot in the arcuate portion *k*, in the same manner, as do the heads on the intermediate braces the slots *g*.

In the accompanying drawings, I have shown the parts in several of their adjustments, and the positions of each will be clearly understood therefrom, in connection with the above, without detailed description.

It will be apparent that the rack may be very readily and conveniently adjusted to its different positions owing to the manner in which the braces *I* are connected thereto, and to the body, and that it may also be as readily removed and replaced, leaving nothing but the brackets *G* and *K*, and the plates *K'*.

The metal employed in the construction of the braces and the various castings is preferably malleable iron, so that the posts are strong and durable and are not liable to breakage, either in use, or in adjusting removing or replacing the rack.

L, L, designate the rub irons on the body for the wheels.

Having described this invention, what I claim and desire to secure by Letters Patent is:

1. In a stock rack, the combination with a wagon body, having the projecting bottom battens *B, B*, and the bracket castings *G, G*, secured to the end portions of said battens, said brackets having outer curved arms *G'* formed with elongated slots *g*, of the rack sides *d, d*, their standards *E*, having a hinge connection with the wagon body, the slotted plates *H* secured to said standards, and the brace arms *I* connecting said plates *H* and bracket castings *G*, said arms being detachable and capable of an oscillating and a vertical movement in the slots of said plate and casting, substantially as specified.

2. In a stock rack, the combination with the wagon body, the rack ends *d', d'*, removably secured thereto, the sides *d, d*, hinged to said

body, and means for connecting said sides and ends, of the corner brackets *K* adjustably secured to plates *K'* on the corner parts of said body, the meeting faces of said brackets and plates having serrations, said brackets having an arcuate slotted portion *k*, the slotted plates *H* on the corner standards of the rack sides, and the brace arms *I* adjustably engaging at its end portions the slots in said brackets and plates, substantially as specified.

3. In a stock rack, the combination with the bracket castings *G, G*, secured to the wagon body and having the outer curved portions *G'* formed with elongated slots *g*, having the outward offsets or shoulders *g'*, and the rack sides hinged to said body, and having the slotted plates *H* secured thereto, of the arms *I, I*, having heads *I'* and *I²* loosely and detachably engaging the slots in said brackets and plates, substantially as specified.

4. In a stock rack, the combination with the sides *d, d*, having a hinged connection with the wagon body, and the plates *H* secured to said sides, said plates having elongated slots *h* having enlarged portions *h'* at their lower ends, and the bracket castings *G* secured to the body, said brackets having slots *g* therein, formed with offsets *g'*, of the brace arms *I* connecting said plates and castings, each of said arms at its upper end having a head *I'* formed with the shoulders *i', i²* detachably and adjustably engaging the slot *h*, and a similar head *I²* on the lower end of said arm detachably and adjustably engaging the slots *g*, substantially as specified.

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

PHILANDER HEWITT.

Witnesses:

GEO. A. JANES,
H. G. BAILEY.