

No. 684,387.

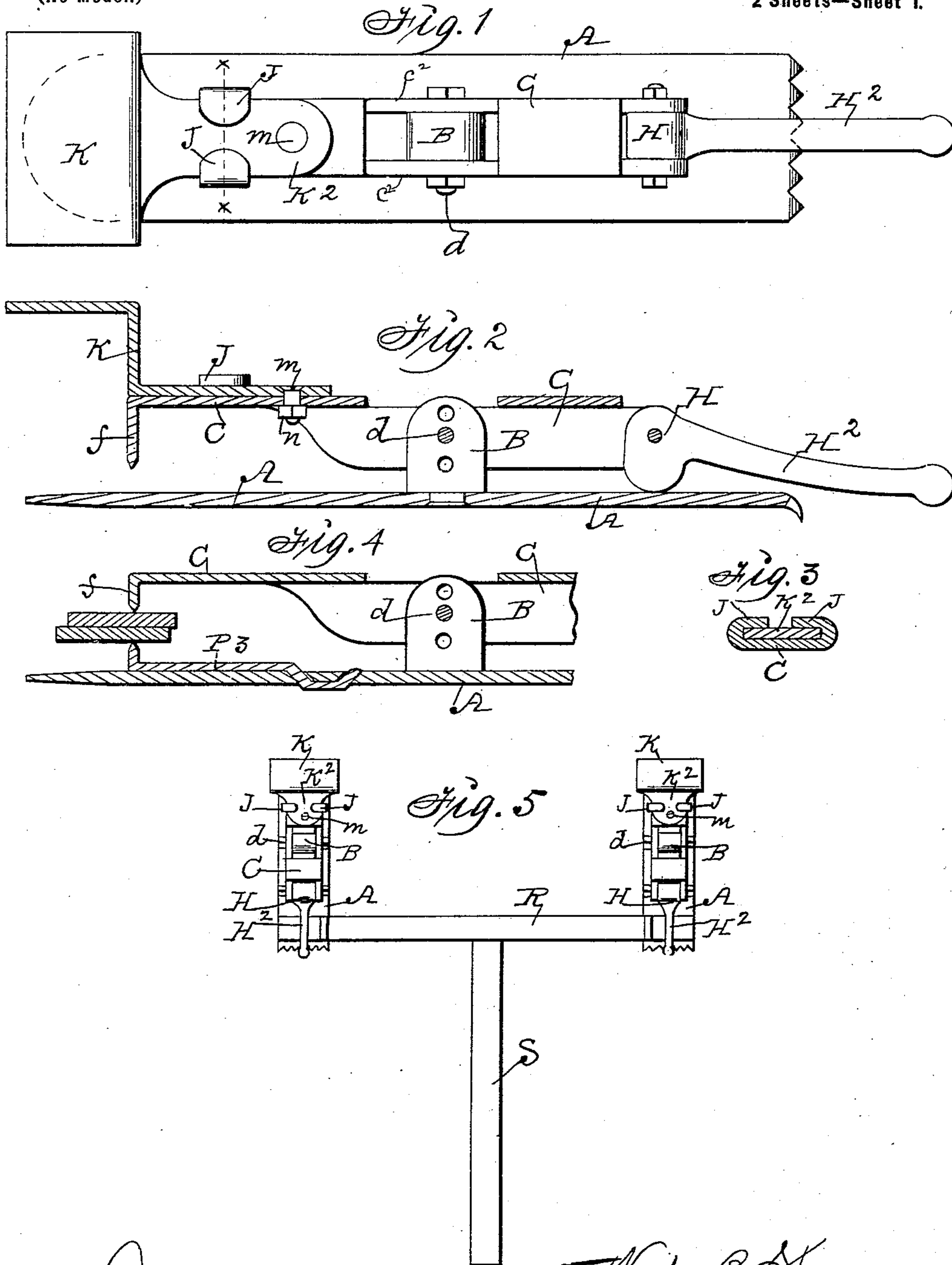
Patented Oct. 8, 1901.

W. B. SHERMAN & J. HARTSHORN.  
ADJUSTABLE STRAIGHT EDGE AND FOOT REST FOR ROOFERS.

(Application filed Dec. 27, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:  
F. C. Stuart,  
R. H. Orwig,

Inventors: Wesley B. Sherman,  
Joseph Hartshorn,  
By Thomas G. Orwig, Attorney.

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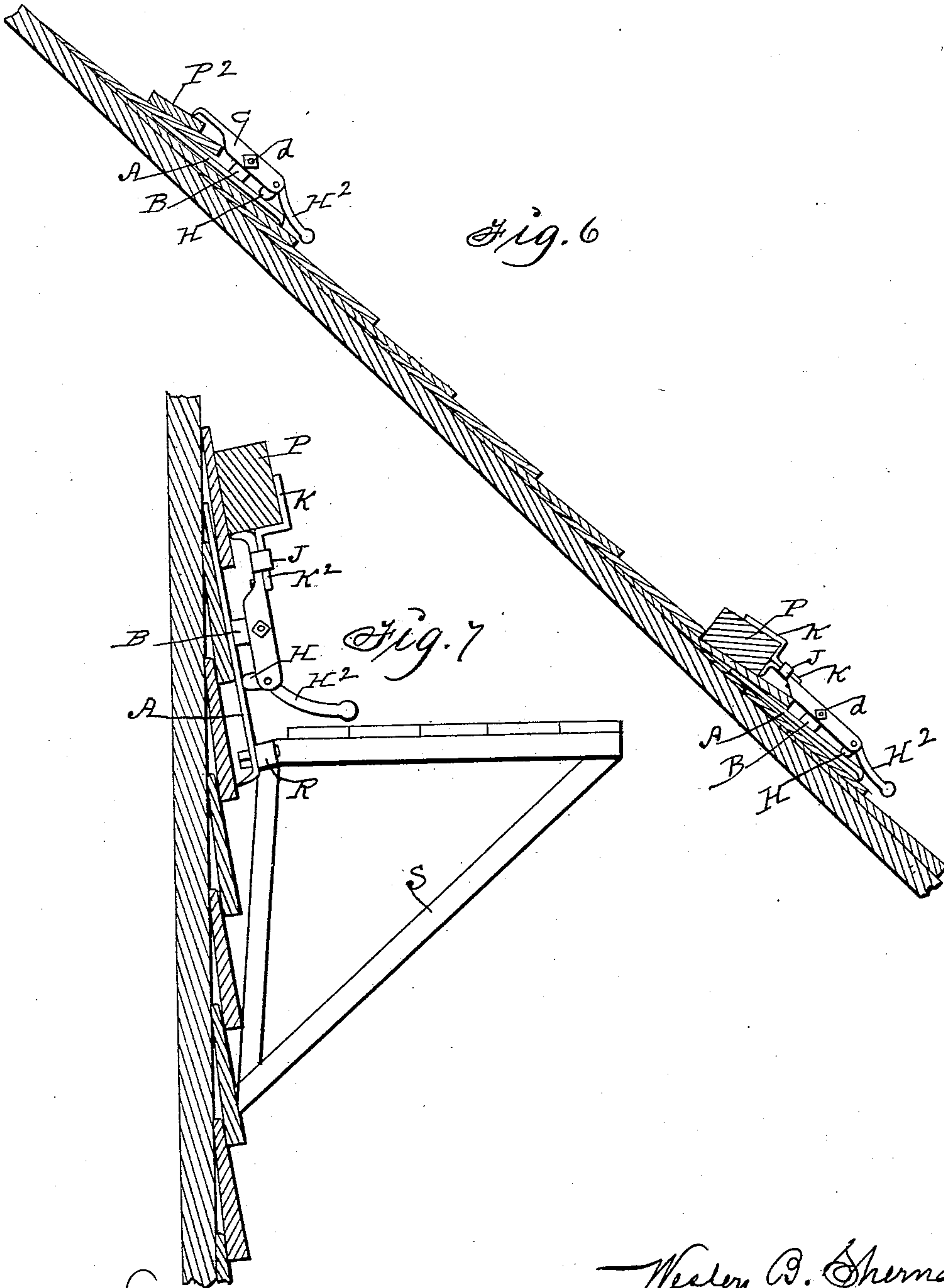
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By Thomas G. Orwig, Attorney.



# UNITED STATES PATENT OFFICE.

WESLEY B. SHERMAN, OF SIOUX CITY, AND JOSEPH HARTSHORN, OF STUART,  
IOWA; SAID HARTSHORN ASSIGNOR TO SAID SHERMAN.

## ADJUSTABLE STRAIGHT-EDGE AND FOOT-REST FOR ROOFERS.

SPECIFICATION forming part of Letters Patent No. 684,387, dated October 8, 1901.

Application filed December 27, 1900. Serial No. 41,218. (No model.)

*To all whom it may concern:*

Be it known that we, WESLEY B. SHERMAN, residing at Sioux City, in the county of Woodbury, and JOSEPH HARTSHORN, residing at Stuart, Guthrie county, State of Iowa, citizens of the United States, have invented a new and useful Adjustable Straight-Edge and Foot-Rest for Roofers, of which the following is a specification.

Our object is to facilitate the labor and promote the convenience and safety of persons when engaged in roofing a building with shingles and weather-boarding the side walls.

A further object is to economize in the use of scaffolding required for such work in constructing buildings.

Our invention consists in the construction and application of an adjustable clamp adapted to be fixed on a roof and also to scaffold-  
ing-brackets at the side of a building, as hereinafter set forth, pointed out in our claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a top view of one of our clamps adapted to hold a straight-edge and foot-rest on a roof and also adapted to be connected with a bracket to serve as a gage in siding or weather-boarding the walls and for hoisting boards, &c. Fig. 2 is a longitudinal sectional view of Fig. 1. Fig. 3 is a transverse sectional view on the line  $xx$  of Fig. 1, showing the foot-rest support detachably connected with the pivoted portion of the clamp by means of clasps that are integral with the clamp. Fig. 4 shows a grip device detachably connected with the base of the clamp as required to adapt the complete device for hoisting lumber. Fig. 5 shows how clamps are connected with a bracket to produce a scaffold for use in nailing on weather-boards on the wall of a building. Fig. 6 shows the clamp applied on a roof as required to support a foot-rest and also as required to serve as a gage for laying on shingles. Fig. 7 shows how the brackets are applied for supporting a scaffold and serving as gages in weather-boarding the side of a building.

The letter A designates a flat metal plate about six inches long and two inches wide adapted to lie flat on fixed shingles on a roof and also to extend under the lower end of a

fixed shingle, as shown in Fig. 6, and its lower end adapted for fixing a board thereto by means of bolts and terminating in inclined teeth adapted to penetrate the flat top surface of a fixed shingle as required to prevent the plate from slipping backward on a roof.

B is a post formed on the center of the plate A by casting it integral therewith in a mold or in any suitable way in such a manner that a lever grip device can be adjustably pivoted to the post.

C is a lever and grip device formed of plate metal or by casting in a mold and pivoted to the post B by means of a bolt  $d$ , extended through one of the bolt-holes in the post and coinciding bolt-holes in the sides or flanges  $C^2$  of the lever grip device. The upper end  $f$  of the part C extends downward at right angles and is provided at its bottom with teeth adapted to bite fast to fixed shingles, as shown in Fig. 6, and to fixed weather-boards, as shown in Fig. 7.

H is an eccentric pivoted between the parallel ends of the flanges or sides of the clamp C and provided with a handle  $H^2$  for operating the eccentric to make the toothed end  $f$  of the clamp C bite fast.

Clasps J project toward each other from the edges of the part C to aid in detachably fastening a foot-rest supporter thereto, as shown in Fig. 6.

The foot-rest supporter is an angle-iron K, that has an extension  $K^2$ , adapted to be placed on top of the end portion of the pivoted part C and under the clasps J and securely and detachably fastened by means of a screw-bolt  $m$  and nut  $n$ , as shown in Fig. 2, in such a manner that when two or more of the clamps are fast on a roof and in alinement with each other a straight wooden foot-rest P can be placed in the angle-irons and securely held, so a person on the roof can place his feet against the foot-rest and safely work on the inclined roof as required when nailing on courses of shingles above the foot-rest and at the same time using the clamps for holding a board  $P^2$  as a straight-edge against which the ends of shingles can abut and be retained in alinement to be nailed fast. It is obvious the board thus used as a straight-edge, by



adjustably connecting it with the clamp, enables us to utilize the clamp for gaging the lap of the shingles, as well as keeping them in alinement at their lower edges. It is also

- 5 obvious that a grip device P<sup>3</sup> can be detachably connected with the part A of the clamp, as shown in Fig. 4, for grasping and holding and hoisting boards and other objects there-  
 10 with when a rope is attached to the part A. To connect two or more of our clamps with a bracket as required for use in scaffolding for supporting a person while weather-board-  
 15 ing the side of a house, the lower ends of the clamps are bolted to a straight bar R, and the bar is fixed to one or more triangular-shaped brackets S, as shown in Fig. 5, so the clamps can be advantageously used for supporting a  
 20 scaffold and at the same time also utilized as gages for regulating the overlaying of the edge portions of weather-boards as required to re-  
 25 tain the boards straight and uniformity in overlaying them as they are nailed fast.

Having thus described our invention and its application and manner of use, its practical utility will be readily understood by persons familiar with the art to which it per-  
 25 tains, and what we claim as new, and desire to secure by Letters Patent, is—

1. A clamping device consisting of a flat  
 30 plate having one end adapted to slip under fixed shingles on a roof and its other end provided with inclined teeth, a fixed post at the central part of the plate, a lever and grip de-  
 35 vice pivoted to the post and one of its ends bent at right angles and provided with teeth and an eccentric pivoted in its other end and provided with a handle and an angle-iron for  
 40 a foot-rest holder detachably connected with said lever grip device, arranged and combined to operate in the manner set forth for the purposes stated.

2. A clamping device consisting of a flat  
 45 plate having one end adapted to slip under fixed shingles on a roof and its other end provided with inclined teeth, a grip device detachably connected with the said flat plate a  
 fixed post at the central part of the plate, a lever and grip device pivoted to the post and

one of its ends bent at right angles and an eccentric pivoted to its other end and pro- 50  
 vided with a handle, an angle-iron for a foot-rest holder detachably connected with said lever grip device, arranged and combined to operate in the manner set forth for the pur-  
 55 poses stated.

3. A clamping device for use in roofing and weather-boarding comprising a flat plate adapted at one end to slip under the end of a fixed shingle on a roof and its other end pro- 60  
 vided with inclined teeth adapted to penetrate the surface of a fixed shingle, a post at the center of the plate, a lever grip device pivotally connected with the post and its one end extended at right angles and provided  
 65 with teeth, an eccentric pivoted to its other end and a handle projecting from the eccentric, clasps at the edges of one end portion of the lever grip device and an angle-iron for supporting a foot-rest having one end fitted  
 70 under said clasps and fixed to the lever grip device by means of a screw-bolt and nut, arranged and combined as shown and described to operate in the manner set forth for the pur-  
 75 poses stated.

4. A clamping device for use in roofing and weather-boarding comprising a flat plate 75  
 adapted at one end to slip under the end of a fixed shingle on a roof and its other end pro-  
 vided with inclined teeth adapted to pene- 80  
 trate the surface of a fixed shingle, a post at the center of the plate, a lever grip device pivotally connected with the post and its one end extended at right angles and provided  
 85 with teeth, an eccentric pivoted to its other end and a handle projecting from the eccentric, a foot-rest support in the form of an angle-iron and means for detachably fastening  
 90 it on top of the end portion of the lever grip device, arranged and combined to operate in the manner set forth for the purposes stated.

WESLEY B. SHERMAN.  
 JOSEPH HARTSHORN.

Witnesses:

REUBEN G. ORWIG,  
 THOMAS G. ORWIG.