

H. ROBERTS.  
LINING HOOP NAILING HORSE.  
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955,905.

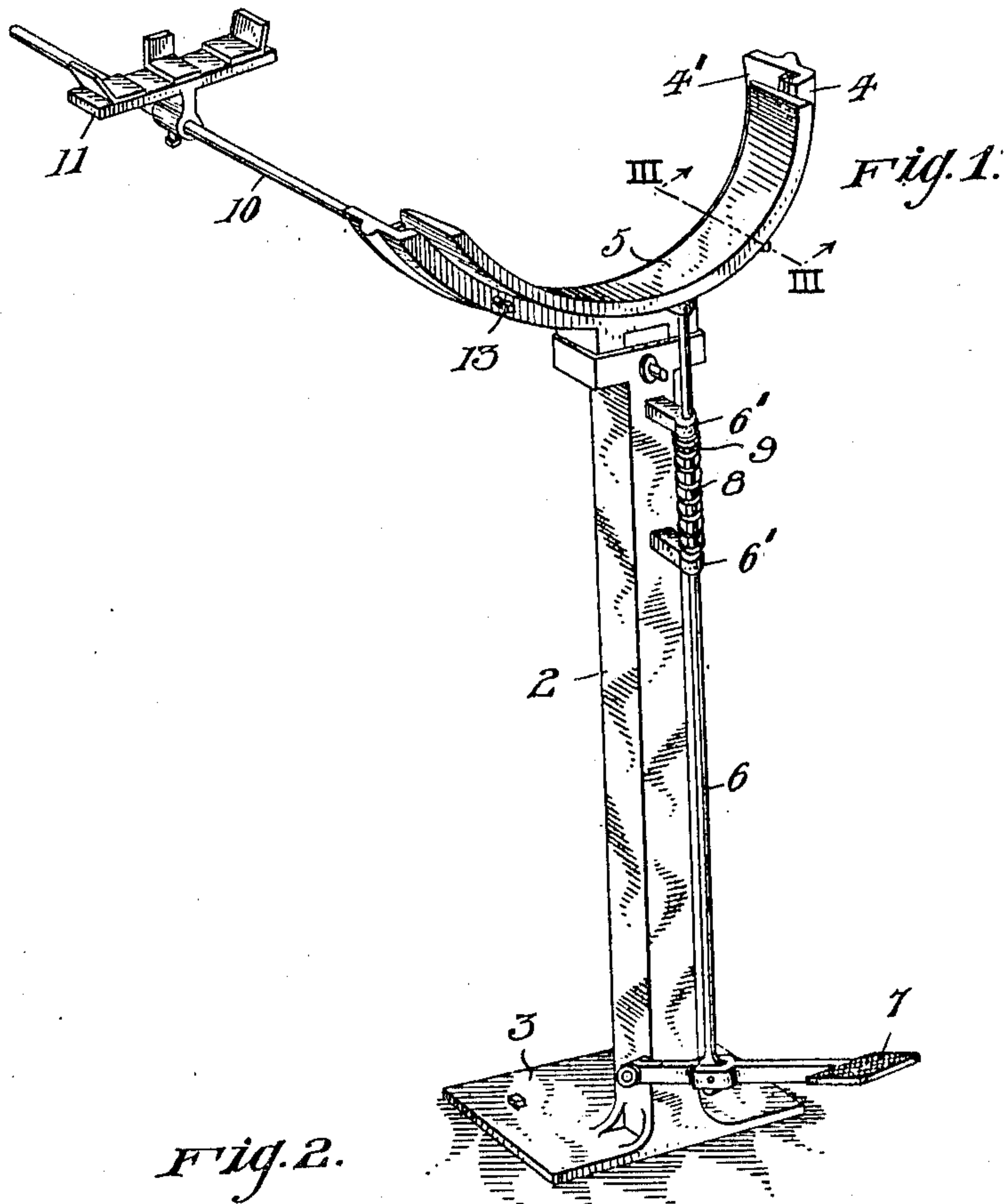


Fig. 2.

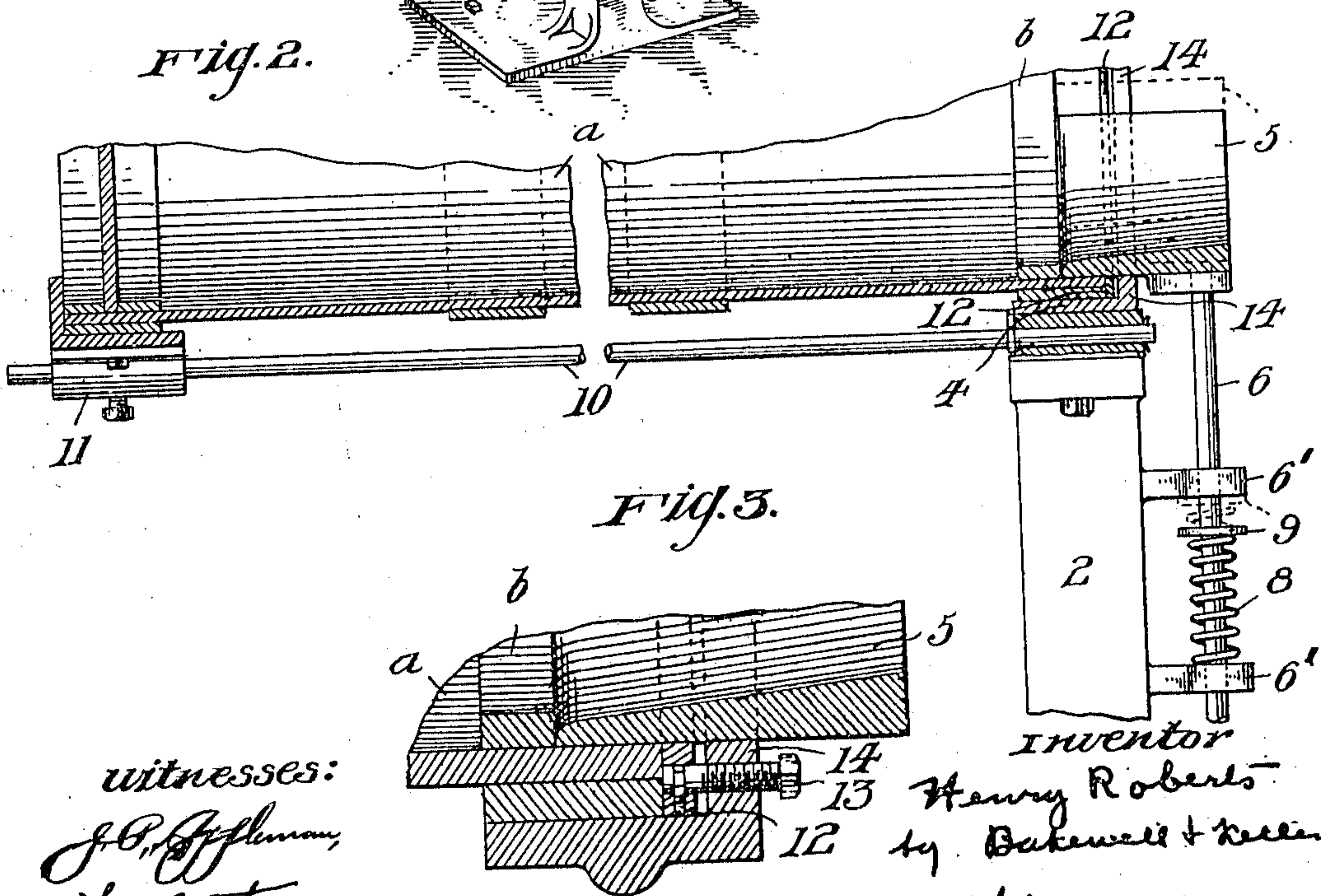


Fig. 3.

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# UNITED STATES PATENT OFFICE.

HENRY ROBERTS, OF PITTSBURG, PENNSYLVANIA.

LINING-HOOP-NAILING HORSE.

955,905.

Specification of Letters Patent.

Patented Apr. 26, 1910.

Application filed September 8, 1909. Serial No. 516,743.

*To all whom it may concern:*

Be it known that I, HENRY ROBERTS, of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a certain new and useful Improvement in Lining-Hoop-Nailing Horses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to nailing-horses adapted for use in the application of lining hoops or strips to barrels or packages.

My invention is particularly adaptable to the inserting of the ordinary head-securing lining hoops of a barrel or cylindrical package; and its object is to provide a device of this character by means of which this work may be rapidly and effectively carried out.

The invention consists, generally stated, in providing, in connection with a clenching saddle by means of which the nails driven into the hoop will be clenched, means for clamping the barrel or like cylinder to the saddle, means for gaging the hoop, and means for varying the gage of the disposition of the hoop from the edge or end of the cylinder, as will be hereinafter more fully set forth.

I will now describe in connection with the accompanying drawings, my invention so that others skilled in the art to which it appertains may understand and construct the same.

Figure 1 is a perspective view of my improved nailing horse; Fig. 2 is an enlarged vertical sectional view; and Fig. 3 is a similar view taken on the line III—III of Fig. 1.

In describing my invention, the reference numeral 2 indicates an upright standard having the base plate 3 by means of which the device may be secured to the floor. Carried by the upper end of this standard 2 is the barrel-end supporting saddle 4, the upper face 4' of which is concaved with a radius adapted to conform or agree with the radius of the barrel or cylindrical package *a*. This upper face constitutes a clenching surface by means of which nails driven into the lining hoop or strip *b* will be clenched on the outer surface of the barrel or package *a*; the end of the barrel receiving a hoop being adapted to lie in the curved face 4'.

Mounted above and formed concentrically with the curved face 4' is the lining hoop-nailing guide 5 which is carried by the upper end of the vertical shiftable rod 6 mounted in the bearings 6' which are formed integral with the standard 2. Shifting of the rod 6 for a lowering of the guide 5 to operative position is accomplished by means of the foot lever 7 which has pivotal connection with the standard 2 and the rod 6. A coiled spring 8 mounted intermediate the bearings 6' and exerting a force on the fixed collar 9 carried by the rod 6, serves to hold the guide 5 normally in elevated position, as shown in Fig. 1.

Means for holding the cylindrical package *a* in a horizontal position within the saddle comprises the horizontally disposed rod 10 rigidly secured to the standard 2, and carrying the horizontally shiftable seat 11 which is adapted to engage with and support the end of the barrel or package *a*, as shown in Fig. 2. By shiftable mounting this seat 11 the same may be adjusted to suit barrels or packages of different lengths.

An adjustable gage-plate 12 curved to conform with and lying within the curved face 4' and against which the edge of the cylindrical body *a* is adapted to abut when lying within the face 4'; constitutes means for varying the distance of the disposition of the lining hoop or strip *b* from the edge of the body *a*; the adjustment of the plate 12 being with respect to the inner edge of the fixed guide 5 along which the lining hoop *b* is adapted to be placed preparatory to nailing. This adjustment of the plate 12 is obtained by means of the bolts or screws 13 which are carried by and disposed at intervals along the upwardly extending flange 14 of the saddle 4.

With the barrel placed in position within the saddle 4, as shown in Fig. 2, the guide 5 is adapted to be lowered by the means already described, clamping the barrel against the curved upper face of the saddle 4; the inner edge of the guide 5 forming an abutment for the lining hoop *b* when placed within the barrel or package preparatory to nailing, as above described.

The saddle 4 is preferably removably carried by the standard 2 for the reason that barrels or packages of radically different curvatures would require the substitution of a saddle having a curved clenching face



agreeing or conforming to the radius of the barrel or package to be received thereby.

It will be apparent that many changes may be made in the construction shown without departing from my invention and I do not therefore desire to limit myself thereto.

The advantages of my invention will be appreciated by those skilled in the art.

The application of lining hoops to barrels or similar packages is greatly facilitated by my device.

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

1. In a nailing horse of the character described, the combination of a support having a nail-clenching surface, a nailing hoop guide, and means for bringing the guide into and out of operative position.

2. In a nailing horse of the character described, the combination of a support provided with a nail-clenching surface, and means for clamping the barrel to the clenching surface, the clamping means constituting a guide for the lining hoop.

3. In a nailing horse of the character described, the combination of a support, having a curved nail-clenching surface against which the barrel is adapted to lie, and means for clamping the barrel against the clenching surface, the clamping means being provided with a lower face conforming with the curvature of the clenching surface.

4. In a nailing horse of the character described, the combination of a support provided with a curved nail-clenching surface adapted to receive the curved face of the barrel, and means for clamping the barrel to the clenching surface formed concentric

with the clenching surface, the clamping means forming a guide for the lining hoop.

5. In a nailing horse of the character described, the combination of a support, a saddle carried thereby and having a nail-clenching surface adapted to conform to the curvature of the barrel, means for holding the barrel in contact with the clenching surface and adapted to form a guide for the disposition of the lining hoop, and means for bringing the guiding means into and out of operative position.

6. In a nailing horse of the character described, the combination of a support having a nail-clenching surface, a lining hoop guide, and means for gaging the distance of the disposition of the lining hoop from the edge of the barrel.

7. In a nailing horse of the character described, the combination of a support having a nail-clenching surface, a lining hoop guide, means for bringing the lining hoop guide into and out of operative position, and adjustable gaging means for varying the distance of the disposition of the lining hoop from the edge of the barrel.

8. In a nailing horse of the character described, the combination of a support having a nail-clenching surface, means for clamping the barrel against the clenching surface, and means for gaging the distance of the disposition of the lining hoop from the edge of the barrel.

In testimony whereof, I have hereunto set my hand.

HENRY ROBERTS.

Witnesses:

M. A. BARTH,

M. ARTHUR KELLER.