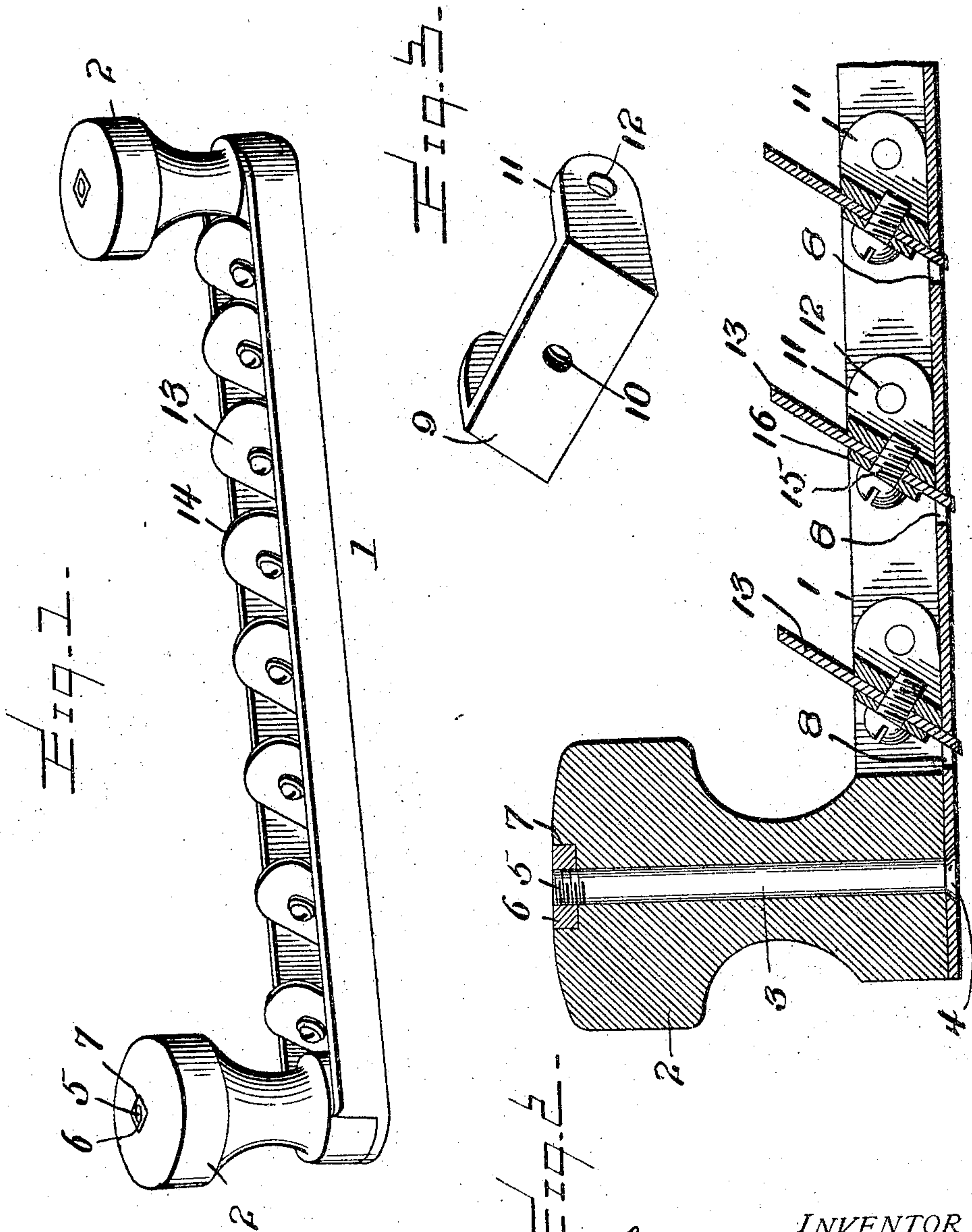


No. 798,063.

PATENTED AUG. 29, 1905.

A. JOHNSON.
HOOF PLANE.

APPLICATION FILED JUNE 17, 1905.



WITNESSES

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UNITED STATES PATENT OFFICE.

AUGUST JOHNSON, OF ALCESTER, SOUTH DAKOTA.

HOOF-PLANE.

No. 798,063.

Specification of Letters Patent.

Patented Aug. 29, 1905.

Application filed June 17, 1905. Serial No. 265,719.

To all whom it may concern:

Be it known that I, AUGUST JOHNSON, a citizen of the United States, residing at Alcester, in the county of Union and State of South Dakota, have invented certain new and useful Improvements in Hoof-Planes, of which the following is a specification, reference being had therein to the accompanying drawings.

My device relates to tools employed by blacksmiths and farriers in paring or trimming the hoofs of horses preparatory to applying shoes or medicines or in any wise treating a horse's hoofs when it is necessary to pare the same down or cut away parts, the object of my said invention being to provide a device of the character described that shall be simple and inexpensive in construction, durable and practical and effective in operation, and one by which a horse's hoof may be more quickly trimmed and prepared to receive a shoe than by other methods now commonly employed.

Other objects and advantages of my invention, as well as the structural features by means of which these objects are attained, will be made clear by an examination of the specification, taken in connection with the accompanying drawings, in which the same reference-numerals indicate corresponding portions throughout, and in which—

Figure 1 is a perspective view of my complete device. Fig. 2 is a longitudinal section through one end of the device and showing three of the cutting-blades and the parts by which they are held in position, and Fig. 3 is a perspective view of one of the plates on which the blades are mounted.

1 designates an oblong frame, which may be of any length and size and constructed of any suitable material, preferably metal. This frame is provided with a handle 2 at each end thereof by means of a bolt 3, extending through a central opening in the handle and having a head 4 and a threaded end 5, on which is screwed a nut 6, resting in a kerf or cavity 7, cut in the top of said handle.

The frame 1 is provided with a plurality of sets of cutting-blades and means for securing the same in position, and as said sets are alike a description of one will suffice for all. A plurality of oblong slots or openings 8 are arranged at suitable distances apart in the floor of the frame 1 and extend transversely thereof, as shown in Fig. 2, one wall of each opening being arranged at a slant of about

forty-five degrees. A plate 9, having a central threaded opening 10 and lateral projecting ends 11, having openings 12, is arranged in the frame by bolts or rivets passing through said openings and disposed at an angle of about forty-five degrees and having one side parallel with the slanted wall of the slot 8. Resting against said plate 9 is a cutting-blade 13, having one end projecting slightly through the opening 8 and the other end rounded, as shown at 14, and projecting somewhat above the top of the frame 1. This blade is provided with an opening 15, through which passes a screw the threads of which engage with the threads in the opening 10 and by means of which the blade is securely held in operative position. If found desirable, a washer 16 may be arranged between the head of the bolt and the cutting-blade 13.

In operation the cutting-blades preferably project an equal distance beyond the bottom of the frame. The surface to be acted upon by these blades is usually limited as to space, so that by the time a succeeding blade begins to cut the advance blade has passed beyond the surface. Consequently but one or two blades are cutting at the same time. If found preferable, the cutting-blades may be adjustably secured in the frame, so that each succeeding blade may project a little farther through the openings in the floor of the frame than the advance blade, and when thus arranged each successive blade will cut deeper than the one preceding it. The arrangement of the handles is such that the operator can work with greater effectiveness, facility, and ease than by using the rasps or cutting devices having but one handle.

It will be readily observed that by making the opening through the cutting-blade 13 oblong instead of round the said cutting-blade may be adjustably mounted on the screw so that it can be raised or lowered to permit the lower point of said blade to extend any suitable distance below the floor of the frame 1 through the slot or opening 8.

I am aware that various modifications of form and arrangement of parts will suggest themselves to the skilled operator and mechanic; but such modifications and arrangements come well within the scope and spirit of my invention as described and illustrated, and I do not, therefore, desire to be limited to the exact construction and arrangement shown.

Having thus described my said invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a device of the character described, an oblong frame, a handle removably mounted on each end of said frame, openings through the frame and arranged transversely thereof, each of said openings having a slanting wall, plates mounted in the frame, each plate being arranged at the edge of the openings and slanting to correspond with the slanting wall of said openings, means for securing the plates in the frame, cutting-blades arranged in the frame and extending through the openings, and means for adjustably securing the blades to the plates.

2. In a device of the character described, the combination, with an oblong frame having transverse oblong openings through the bottom thereof, each opening having one slanting wall, and a handle removably mounted on each end of the frame, of a plurality of cutting-blade-supporting frames mounted in the first-mentioned frame, each cutting-blade-supporting frame comprising a slanting wall having its ends turned at right angles therewith and provided with openings whereby it is se-

cured in the frame, said slanting wall being further provided with an opening through its center whereby a cutting-blade may be removably mounted thereon so that the lower end of said blade will extend through one of the oblong transverse openings in the oblong frame.

3. In a device of the character described, the combination, with an oblong frame having oblong transverse openings in the floor thereof, each opening having one slanting wall, and a handle removably mounted on each end of said frame, of a plurality of cutting-blade supports mounted in the frame, one of said supports being arranged at the edge of each slanting wall of an oblong opening, the face-wall of each cutting-blade support being arranged in the frame at an angle to correspond with the slanting wall of the opening, and a cutting-blade secured to each slanting face-wall of the cutting-blade supports by means of an opening through the center of the support.

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

AUGUST JOHNSON.

Witnesses:

J. A. SWENSON,
OLIVE D. EDSON.