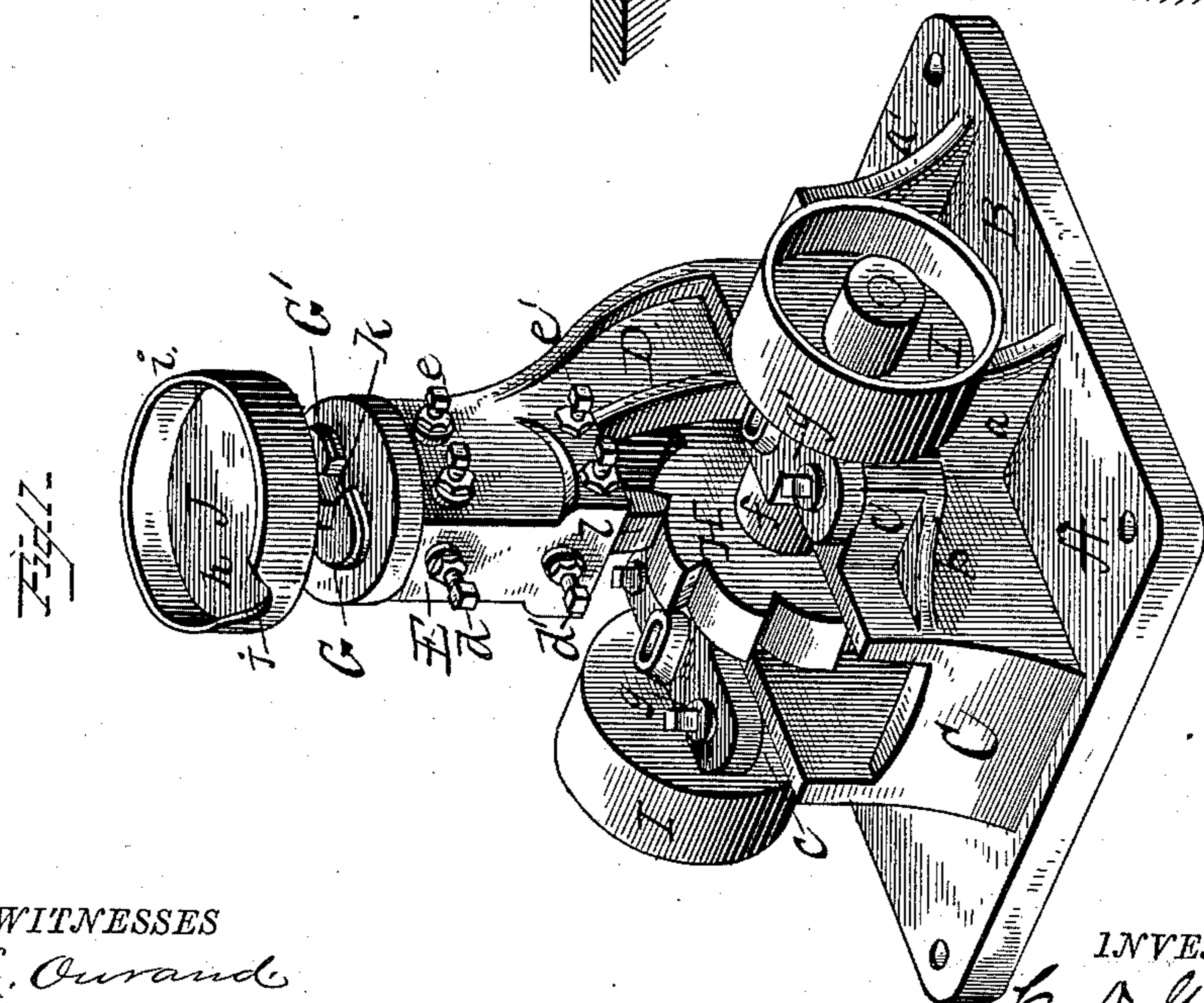
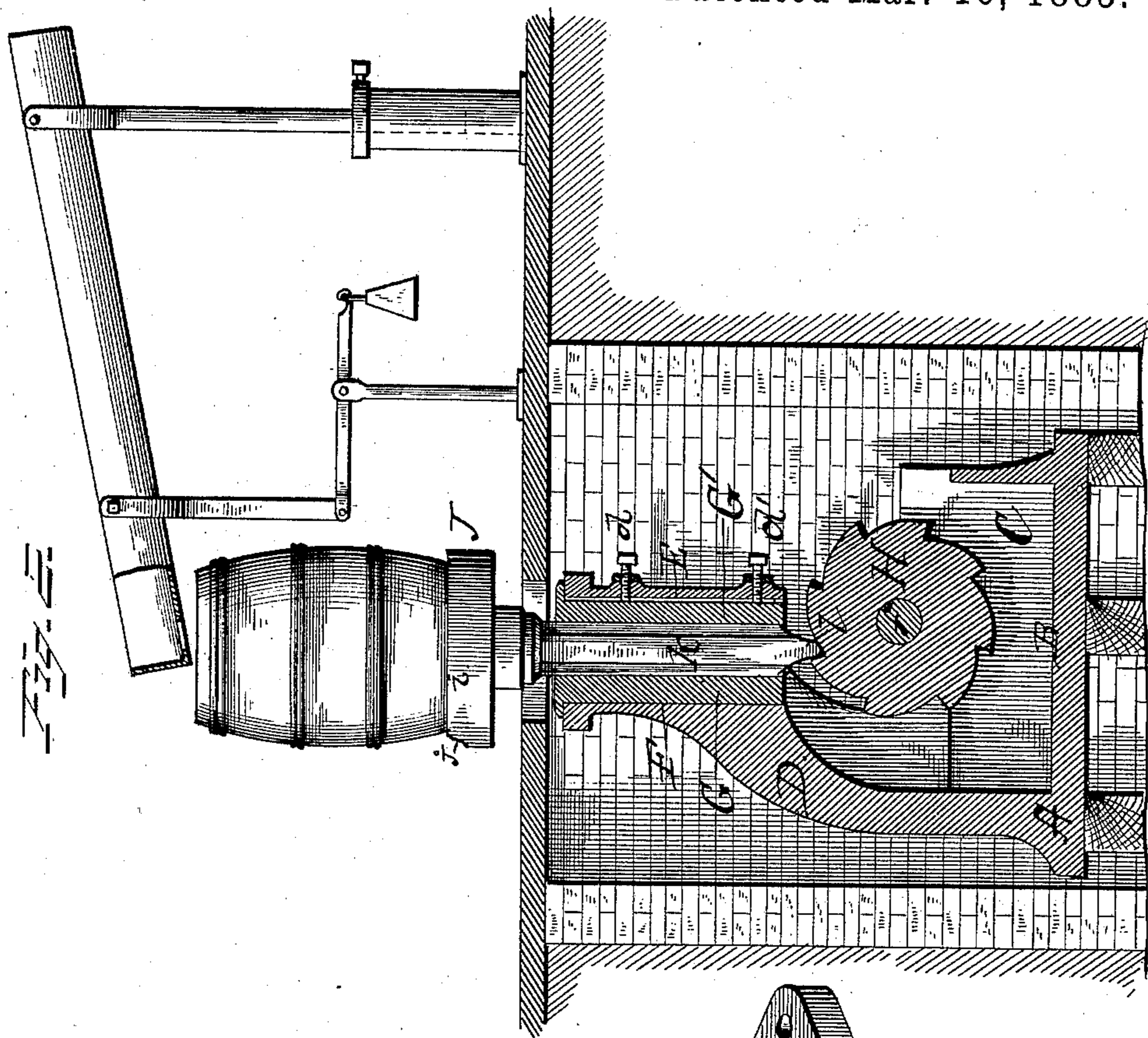


(No Model.)

C. D. GODCHARLES.
NAIL PACKER.

No. 313,721.

Patented Mar. 10, 1885.



WITNESSES

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CHARLES D. GODCHARLES, OF MILTON, PENNSYLVANIA.

NAIL-PACKER.

SPECIFICATION forming part of Letters Patent No. 313,721, dated March 10, 1885.

Application filed July 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES D. GODCHARLES, a citizen of the United States of America, residing at Milton, in the county of Northumberland, in the State of Pennsylvania, have invented new and useful Improvements in Nail-Packers, of which the following is a specification.

My invention has relation to improvements in nail-packers, especially of that class designed to pack cut nails in the kegs or boxes for transportation.

The object of my improvements is to provide a machine for the purposes named which is substantial in construction and simple and reliable in operation.

My invention therefore consists in the novel construction and combination of parts, as will be hereinafter more fully described, and specifically pointed out.

In the accompanying drawings, forming a part of this specification, and illustrative of my improved machine, Figure 1 is a perspective view of the complete machine; and Fig. 2 is a central vertical sectional view of the machine as it may be located beneath the floor of the packing-room, and showing the nail-trough in position.

Reference being had to the annexed drawings, wherein like letters indicate like parts, the letter A represents the base of the machine, which is made of cast metal, and may be of any substantial construction. I have demonstrated in the drawings a preferred conformation, which consists of the base B, having cast as part of it the box C, the sides of which are strengthened by side braces, *a a'*, which support as a part thereof the cross-piece *b* and journal-bearings *c c'*.

Projecting from the base, and cast as a part thereof, is the curved standard D, chambered, substantially as shown in Fig. 1, to receive the rear portion of the brake-wheel, and terminating in the vertical neck-piece E, formed with a vertical passage, F, adapted to receive vertically-disposed guide-bearings G G', which are made adjustable by means of set-screws *d d'* in the face of the neck-piece, said adjustable guide-bearings being secured against displacement by means of set-screws let through the sides of the neck-piece, substantially as shown at *e e'*.

The letter H represents a brake-wheel formed with a series of cam-steps on its face for the purpose of giving to the keg-seat an intermitting vertical movement. This brake-wheel is fixed to the shaft *f*, resting in boxes formed in the sides of the box C on the base, and is secured therein by caps *g g'*, held in place by any suitable means. To the end of the shaft *f* is fixed a pulley, I, to receive a belt connected with the moving power. Other gearing may be substituted, and duplicate pulleys may be affixed to each end of the shaft of the brake-wheel.

The letter J represents the keg-seat formed with the seat *h*, having the annular wall *i*, and provided with a turning-way, *j*, and formed with the central depending arm, *k*, formed with the tapered point *l*. The central depending arm, *k*, of the keg-seat is formed to suit the conformation of the interior of the bearing-guide plates, and so secured between them by means of the adjusting-screws that it may move up and down with ease and at the same time be secured in accurate perpendicularity.

In Fig. 1, I have shown the receiving-pan for the nails as they are brought from the machine, weighed to ascertain the quantity cut, and then deposited in the receptacle, which consists of a metal pan or trough suspended at the rear and adapted to be vertically adjusted and sustained at its forward end in a yoke formed with a depending standard pivoted to the end of a lever fulcrumed in an upright standard and weighted on its free end. I make no claim in this application to this means for receiving and disposing of the nails into the keg, as the same will form the subject-matter of an independent application for Letters Patent.

The operation of my improved packer is readily discerned from the accompanying illustrations and foregoing description. The keg being set on the seat, as shown, and brought under the aperture in the forward end of the receiving-pan, the nails are drawn down or shook down until they fall into the keg through the aperture, when they are continually agitated by the movements of the machine and solidly packed in the receptacle. When the keg is filled to such an extent as to warrant its removal from the seat, it is sim-

ply turned upon its edge and rolled out through the turnway in the annular wall of the seat.

5 The point of the depending arm of the keg-seat is chill-hardened, as is also the faces of the cams on the brake-wheel.

The machine as herein described is a self-oiler—that is to say, that oil deposited upon the depending arm of the keg-seat finds its
10 way down onto the faces of the cams, and thence down into the box, from whence it may be removed should it accumulate to such quantity in the box as to require being drawn off.

What I claim as my invention, and desire
15 to secure by Letters Patent, is—

1. The keg-seat formed with an upward extending annular flange and turning-way and a vertical depending arm having a tapered end, substantially as described, and for the
20 purpose set forth.

2. The base formed with the box, the curved standard terminating in the upright neck-piece formed with a vertical passage, substantially as and for the purpose set forth.

25 3. The base formed with the box C, curved standard chambered, as set forth, and formed

with a passage provided with adjustable guide-plates, the brake-wheel having its shaft journaled on the sides of the box and operatively connected to the power, and the keg-seat ar-
30 ranged with its depending arm in the vertical adjustable guide-bearings and impinging the face of the brake-wheel, the whole arranged and combined substantially as and for the purpose set forth.

4. In combination, the base provided with journal-bearing boxes and formed with a stand-
ard having its upper end formed with a vertical passage provided with adjustable guide-
40 plates, a cam-wheel having its shaft journaled on bearings on the base and operatively connected with the power, and the keg-seat having its depending arm in the vertical adjustable guideways and impinging the face of the cam-wheel, substantially as described.

In witness whereof I have hereunto subscribed my name in the presence of two at-
testing witnesses.

CHARLES D. GODCHARLES.

Attest:

S. A. ANDREWS,
A. G. HEYLMAN.