

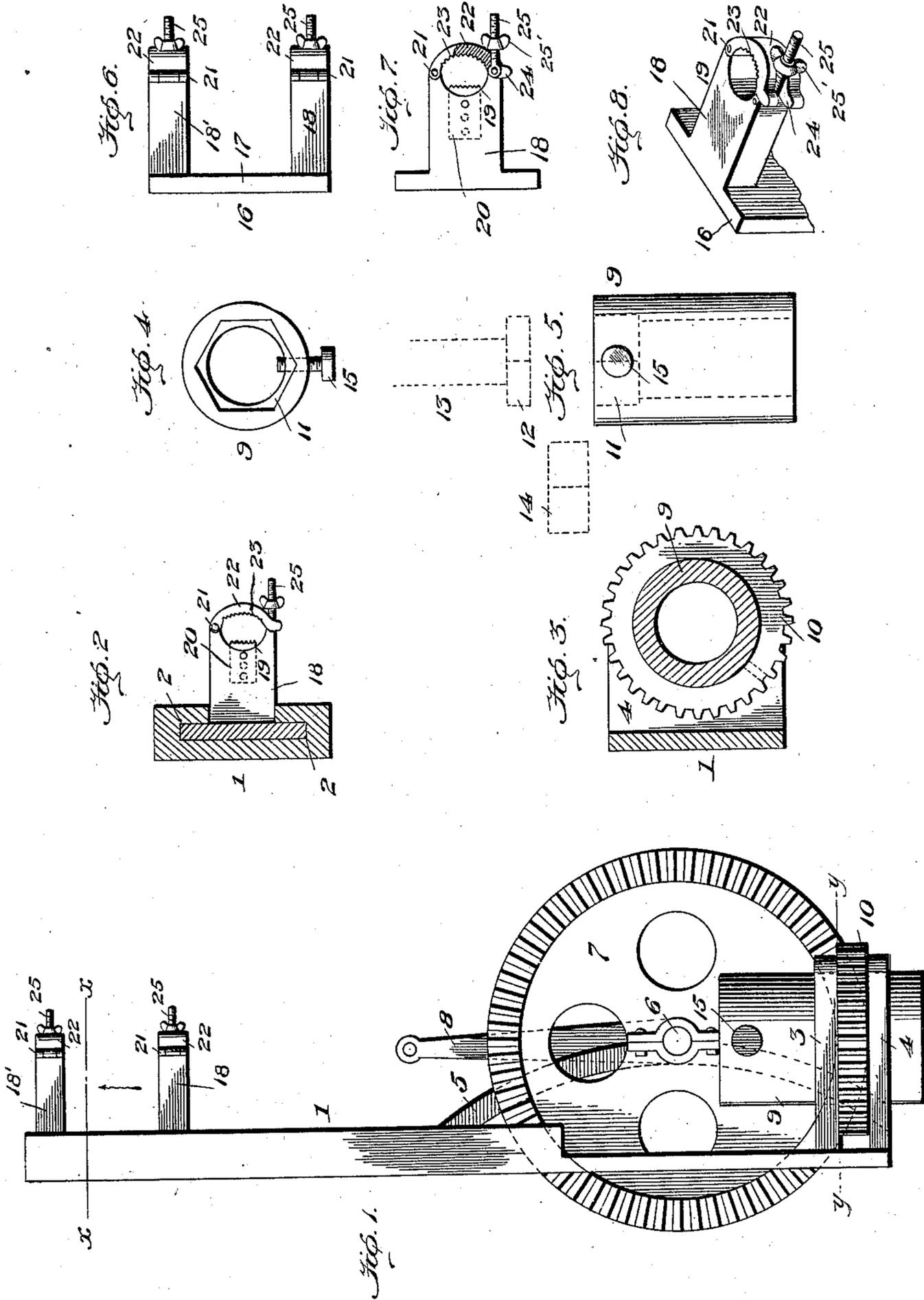
No. 717,337.

Patented Dec. 30, 1902.

F. P. BURNETT.  
NUT AND BOLT THREADING MACHINE.

(Application filed May 22, 1902.)

(No Model.)



Witnesses,  
*Edmund [Signature]*  
*[Signature]*

Inventor:  
 Frank P. Burnett  
 By *Henry N. [Signature]* Atty.

# UNITED STATES PATENT OFFICE.

FRANK P. BURNETT, OF SAN CARLOS, ARIZONA TERRITORY.

## NUT AND BOLT THREADING MACHINE.

SPECIFICATION forming part of Letters Patent No. 717,337, dated December 30, 1902.

Application filed May 22, 1902. Serial No. 108,587. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK P. BURNETT, a citizen of the United States, residing at San Carlos, county of Gila, Territory of Arizona, have invented certain new and useful Improvements in Nut and Bolt Threading Machines, of which the following is a specification.

My invention relates to hand-operated nut and bolt threading machines.

The object of the present invention is the provision of a simple, inexpensive, and durable machine of a portable nature which can be readily and easily operated by hand to quickly cut screw-threads on nuts and bolts.

Having the foregoing object in view, my invention consists of certain improved features and novel combinations of parts, as set forth hereinafter and recited in the appended claim.

In the accompanying drawings, Figure 1 is a side elevation; Fig. 2, a cross-section on line *xx* of Fig. 1; Fig. 3, a cross-section on line *yy* of Fig. 1; Figs. 4 and 5, details of the tap or die holder; Fig. 6, a side view of the slide with bolt and nut holder at the ends thereof; Fig. 7, an end view showing the bolt-holder at one end of the slide; and Fig. 8, a detail perspective view of the nut-holder, showing the slide broken away.

The numeral 1 designates the frame, which is provided with undercut guideways 2, extending lengthwise thereof, and plates 3 and 4 at one end portion. The frame also has an arch 5, provided with a bearing, and in this bearing is received the journal 6 of a drive-gear 7, having a crank 8.

The tap or die holder 9 consists of a hollow cylinder journaled in the plates 3 and 4, and extending above and below them and encircling said tap or die holder and suitably secured thereto is a pinion 10, meshing with gear 7, which drives it. The pinion prevents the tap or die holder from dropping out of position. In the end of the tap or die holder is a hexagonal socket 11, in which the head 12 of the tap 13 or the die 14 is received and held by a set-screw 15.

The work-holder 16 has a base or slide 17, movable in the guideway 2, and it is provided

with the twin pedestals 18 and 18', having cut-out tops 19. In the bolt-holder 18 is secured the adjustable toothed gripping-block 20; but the nut-holder 18' has no such block. Hinged at 21 to the tops of the pedestals are the clamps 22, having teeth 23 and provided with slot 24, while 25 is a fastening-screw pivoted to the pedestal and adapted to take into the slot 24 and hold the clamp 22 down on the work by the wing-nut 25'. The holder is used for holding a bolt to be threaded; but for holding nuts the nut-holder shown in Fig. 8 and located at the upper end of the slide is employed. It will be understood that the clamps are in alinement with the bore of the tap or die holder.

In operation the tap or die is first secured in its holder and the nut or bolt secured in the work-holder. The gravitation of the work-holder, assisted by hand, if necessary, continuously feeds the nut or bolt to be threaded to the tap or die used, the crank being turned meanwhile, and threading is thereby rapidly and easily accomplished.

I am aware that many changes of construction could be resorted to in carrying out my invention, and I therefore consider that I am entitled to all modifications coming within the spirit and scope of the invention.

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

In a screw-threading machine, the combination with a vertical frame having guideways extending longitudinally thereof, and horizontally-outstanding plates, of a tap or die holder journaled in the plates, a pinion on the tap or die holder and embraced between the plates to prevent longitudinal displacement of the tap or die holder, a gear journaled on the frame and meshing with the pinion and arranged for turning it and the tap or die holder, and a work-holder slidable by gravity in the guideways toward the tap or die holder.

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

FRANK P. BURNETT.

Witnesses:

HARRY TEMPLE,  
CHARLES DICKENS.