

G. F. CHAPMAN.
 SCREW THREADING IMPLEMENT.
 APPLICATION FILED NOV. 10, 1908.

938,973.

Patented Nov. 2, 1909.

2 SHEETS—SHEET 1.

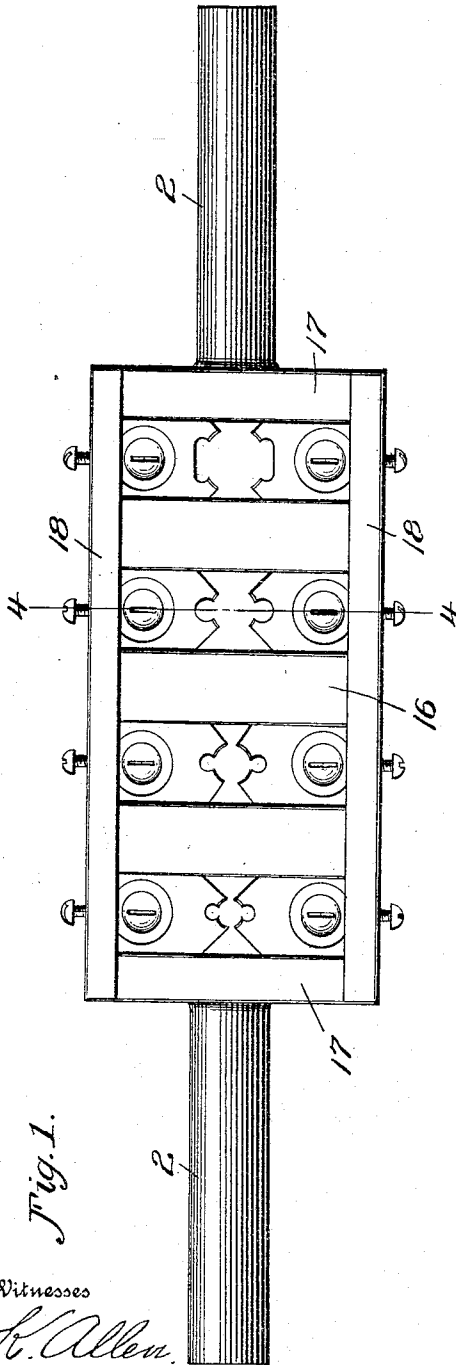
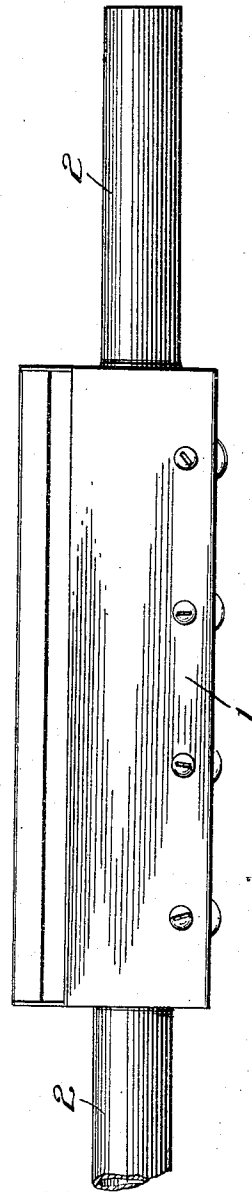


Fig. 1.

Witnesses
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Fig. 2.



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Fig. 3.

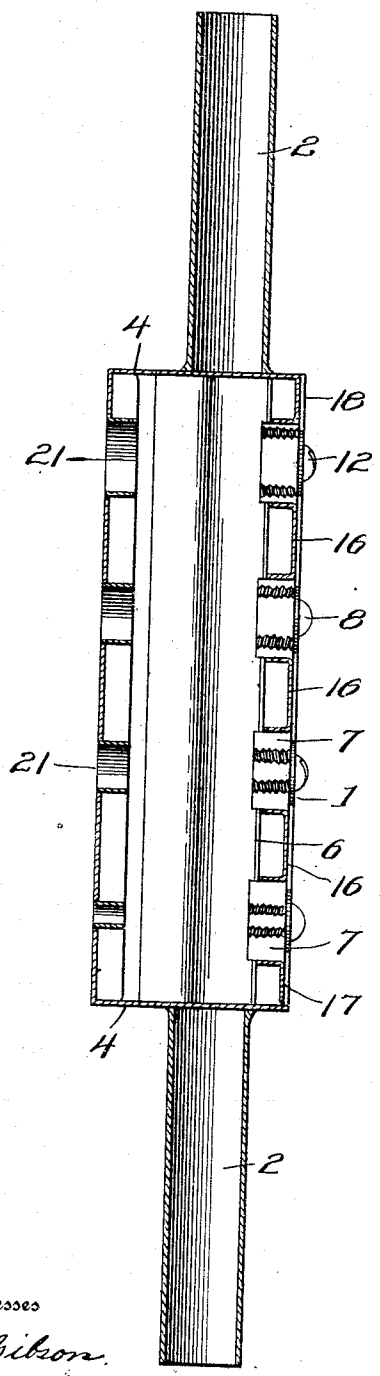


Fig. 4.

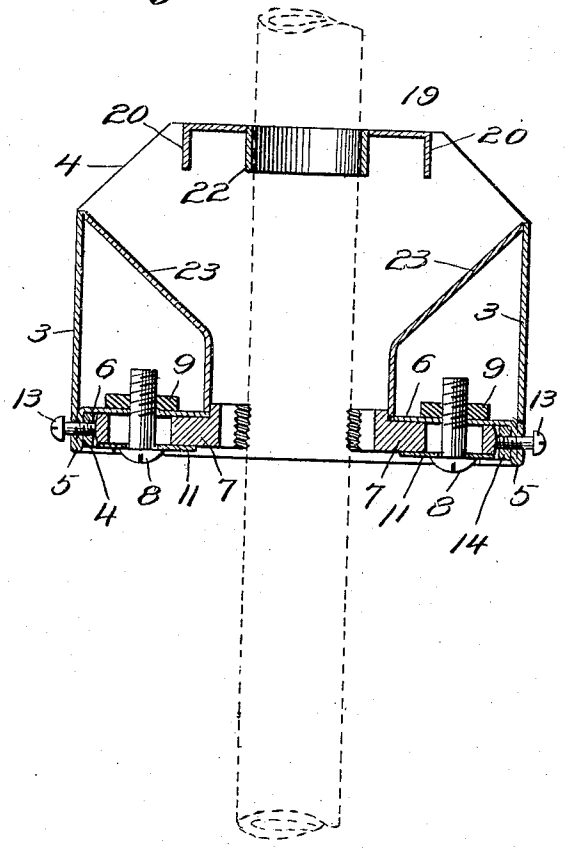
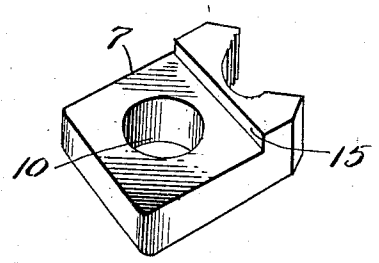


Fig 5.



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UNITED STATES PATENT OFFICE.

GEORGE F. CHAPMAN, OF LINTON, INDIANA.

SCREW-THREADING IMPLEMENT.

938,973.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed November 10, 1908. Serial No. 461,936.

To all whom it may concern:

Be it known that I, GEORGE F. CHAPMAN, a citizen of the United States, residing at Linton, in the county of Greene and State of Indiana, have invented new and useful Improvements in Screw-Threading Implements, of which the following is a specification.

My invention relates to improvements in screw-threading implements.

The primary object of the invention is the provision of a device of this character wherein the stock is constructed of sheet metal or cast iron, and wherein the stock is provided with a plurality of sets of dies of various sizes.

A further object of the invention is the provision of a screw threading implement which is simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

With the above and other objects in view, the invention consists in the construction and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, wherein:—

Figure 1 is a top plan view of a screw threading implement constructed in accordance with my invention. Fig. 2 is a view in side elevation thereof. Fig. 3 is a sectional view taken on a plane extending centrally and longitudinally through the implement. Fig. 4 is a sectional view taken on a plane extending transversely through the stock, and Fig. 5 is a detail perspective view of one of the dies.

Referring to the drawings by reference numerals, 1 designates the stock and 2 the handles of my improved screw-threading implement. The stock 1 is made of sheet metal, cast iron or malleable wrought iron and comprises sides 3 and ends 4. The lower portions of the sides 3 are folded upon themselves as at 5 and thence extended inwardly at right angles with relation to the sides to provide die plates 6. A plurality of sets of dies 7 of different sizes are secured to the die plates 6 by means of bolts 8 and nuts 9. The nuts 9 are secured to the inner surfaces of the die plates 6 and the openings therein register with openings formed in the die plates. The bolts 8 pass through openings 10 formed in the dies 7, the openings in the dies being larger than the bolts to permit the dies to be adjusted on the bolts. Washers

11 are mounted between the heads of the bolts 8 and the dies 7. When the bolts 8 are turned in one direction the dies are clamped between the washers 11 and the die plates 6, and therefore held against movement. When the bolts 8 are turned in the reverse direction, the dies 7 may be adjusted. The heads of the bolts are provided with slots 12 to permit the use of a screwdriver in turning the bolts. Set-screws 13 are carried by nuts 14 secured to the inner side of the portions 5 of the sides 3, said set-screws assisting the bolts 8 to secure the die 7 in adjusted positions. The dies 7 are provided with shoulders 15 which engage the inner edges of the die plates 6 and limit the movements of the dies in one direction. The dies of each set are adjustable with relation to each other, that is to say, adjustable transversely of the stock.

To prevent the dies 7 from having any movements longitudinally of the stock, a member 16 is mounted between each set of dies, and members 17 are mounted between the end walls 4 of the stock and the adjacent sets of dies, as best illustrated in Fig. 3 of the drawings. The members 16 and 17 are secured to supports 18 which are in turn secured to the lower edges of the sides 3 of the stock. A guide 19 is secured to the upper edges of the ends 4, and is provided at its longitudinal edges with depending reinforcing flanges 20. The guide 19 is provided with a plurality of openings 21 of different sizes and a collar 22 is secured to the wall of each opening.

The ends 4 of the stock are higher than the sides 3 thereof, and the guide 19 has a transverse extent smaller than that of the stock, such structure providing an elongated opening on each side of the stock which permit the dies to be lubricated from the top of the stock.

The die plates 6 are strengthened by means of angular braces 23 which are secured at their upper ends to the upper ends of the sides 3 and their lower ends to the inner end of the plate 6, as best illustrated in Fig. 4 of the drawings.

After the die stock has been applied to the pipe, rod, or the like, to be threaded, the bolts 8 of one set of dies are loosened, and the dies adjusted in the direction of the pipe, rod, or the like, through the medium of the set-screws 13 which engage the particular

dies. After the dies have been properly adjusted, the bolts 8 are turned to secure the dies in position.

As the die stock is provided with a plurality of sets of dies of different sizes, it should be apparent that the device may be used for threading pipes, rods, or the like, of a variety of sizes. It should also be apparent that the invention is simple of construction, that it is durable and efficient, and that it may be manufactured and sold at a comparatively low cost.

Changes in the form, proportions and minor details of construction may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described the invention, what is claimed as new is:—

A screw threading implement including a sheet metal stock which consists of side walls,

end walls extending above the side walls, die plates projecting inwardly from and spaced above the lower edges of the side walls, supports secured to the sides, a plurality of relatively spaced members secured to the supports, dies mounted upon the plates between the members, a guide secured to the upper edges of the end walls and provided with a plurality of openings, said guide being provided at its longitudinal edges with depending reinforcing flanges, collars secured to the under side of the guide and surrounding the openings, and handles secured to the end walls.

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

GEORGE F. CHAPMAN.

Witnesses:

EMANUEL DIXON,
D. E. DIXON.