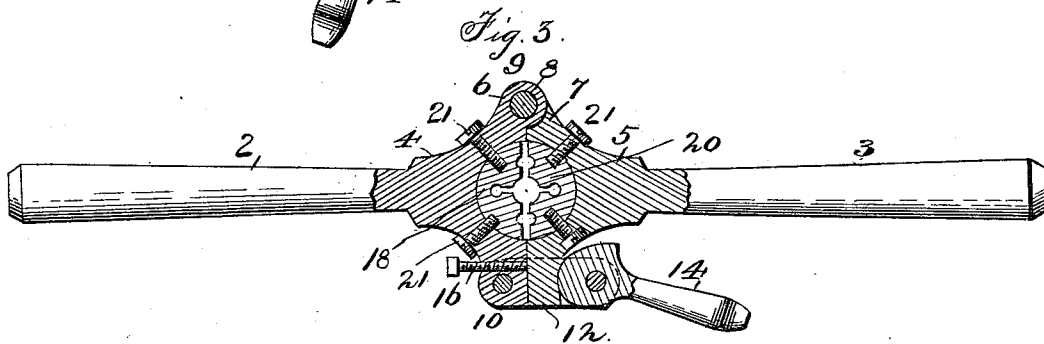
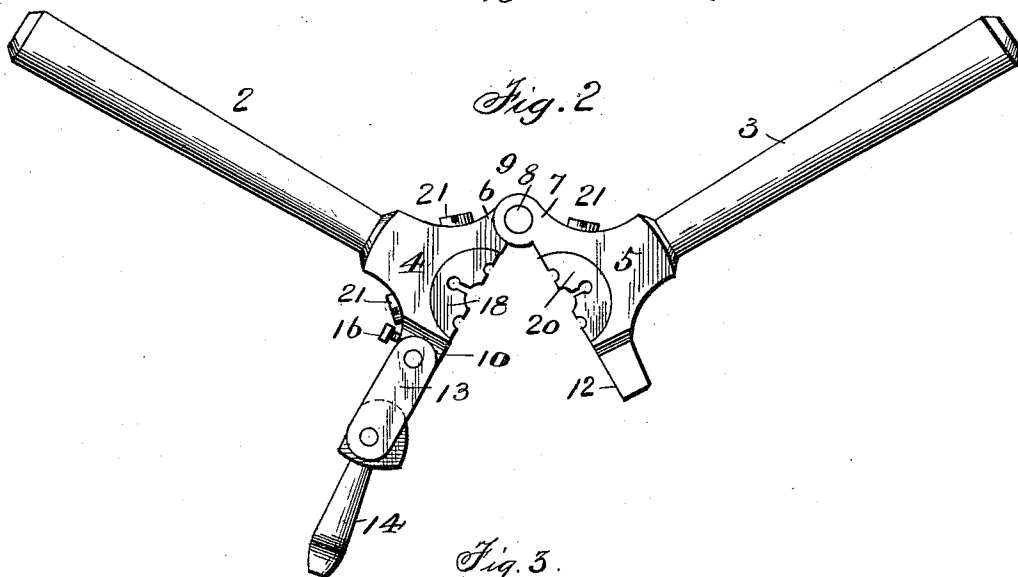
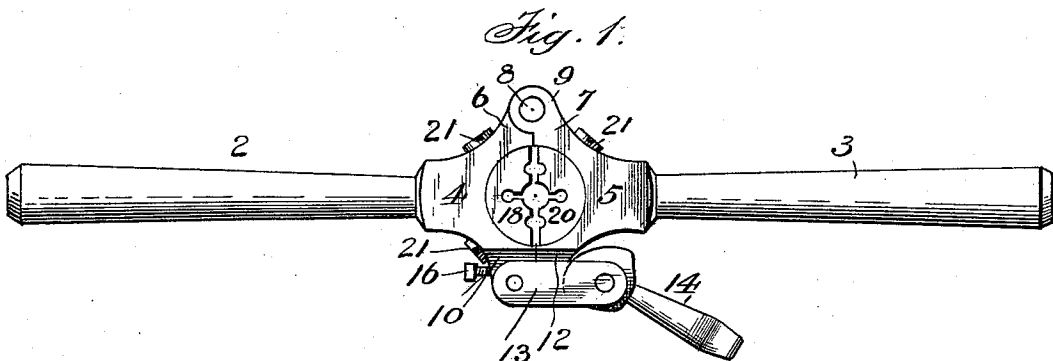


(No Model.)

F. H. LIVINGSTON.
ADJUSTABLE STOCK FOR SPLIT DIES.

No. 579,756.

Patented Mar. 30, 1897.



Witnesses.

F. L. Orvand.
A. B. Smith.

Inventor.

Frederick H. Livingston

By *J. H. Wilcox*
Attorney.

Attorney.

UNITED STATES PATENT OFFICE.

FREDERICK H. LIVINGSTON, OF ITHACA, NEW YORK.

ADJUSTABLE STOCK FOR SPLIT DIES.

SPECIFICATION forming part of Letters Patent No. 579,756, dated March 30, 1897.

Application filed April 28, 1896. Serial No. 589,405. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK H. LIVINGSTON, a citizen of the United States, residing at Ithaca, in the county of Tompkins and State of New York, have invented certain new and useful Improvements in Adjustable Stocks for Split Dies; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in combined adjustable dies and stocks, and more particularly to that class wherein a separable die is combined with a separable and adjustable die-stock; and the object is to provide a simple and convenient device of this kind.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

It also consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference-numerals indicate like parts of the invention.

Figure 1 is a plan view of my improved adjustable split-die stock. Fig. 2 is a similar die with the die and stock opened. Fig. 3 is a longitudinal section with the die-stock closed.

The die-stock proper consists of the lever-handles 2 and 3, the jaws 4 5 of which are provided with lugs 6 7, through which a rivet or screw 8 passes to make a stout durable hinge 9 at this point, and on the opposite side of the jaws 4 5 are formed integral lugs 10 12, the lug 10 having an open parallel-sided link 13, pivoted at one end to said lug, and in the other end of said link is pivoted a thumb-lever 14, having a cam or eccentric faced jaw which engages with the side of the lug 15, formed integral with the jaw 5, and when the link is in place serves to adjustably and rigidly hold the jaws together.

A set-screw 16 passes through the jaw 4 and acts as an adjustable stop to regulate the distance between the jaws 4 and 5 when they

are locked. Each jaw is provided with a semicircular half-section of a split die 18 20, removably secured thereto by set-screws 21, and it will be seen that considerable latitude of adjustment is given the die 18 20 by means of the set-screw 16 and the lever 14, for if it is desired to cut the thread smaller the screw 16 is turned the proper distance to the left and the lever 14 passed farther in. This brings the half-sections of the die 18 20 closer together, and a thread with a smaller diameter is cut, while reversing the operation will cut a thread with a larger diameter, and of course by removing the die-sections 18 20 and replacing them with a similar die having a different thread or a different diameter a corresponding thread can be cut.

A very important feature of my tool is found in cutting a thread on a bolt or screw. No time is lost in "backing" the die off, as is commonly the case in this class of tools, but the lever 14 can be thrown out, releasing the lug 15 and thereby allowing the stock and die to be opened, as shown in Fig. 2, and this feature is especially valuable in the case of long threads, where the die has to be "backed" off, as I have often found it to occur in practice that in backing off the die it will strip the thread and ruin the bolt or screw, a fault which is entirely overcome by my separable die-stock, as the die can be released from the bolt when the last thread has been cut, and there is no occasion to reverse it even for a single turn, time and labor being saved by removing it entirely and beginning on a new bolt.

I am aware that separable dies and stocks, as illustrated by the patent to Patton, No. 456,660, dated July 28, 1891, were in use prior to my application, and I do not broadly claim such.

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

A combined split die and stock, comprising the lower handles 2 and 3, having integral jaws 4 and 5 pivoted together, and having in their meeting faces semicircular recesses and smooth holes leading radially from said recess, said jaws being formed at points opposite their pivotal connection with lugs, and one of said lugs being provided with a transverse screw-hole, a set-screw working

through said screw-hole to serve as a stop, split dies arranged in the jaw-recesses and provided with radial screw-holes in alinement with the plain radial holes, screws passed loosely through the latter-mentioned holes and screwed into the screw-holes of the split dies, a link pivoted to one of the said lugs and adapted to embrace the other lug, and a

cam-face lever pivoted to the free end of the link for the purpose specified. 10

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

FREDERICK H. LIVINGSTON.

Witnesses:

JOHN A. FISHER,
J. F. TETLEY.