

Dec. 11, 1923.

1,476,696

H. P. DEELY

SWIVEL BLOCK

Filed Aug. 20, 1921

2 Sheets-Sheet 1

Fig. 1.

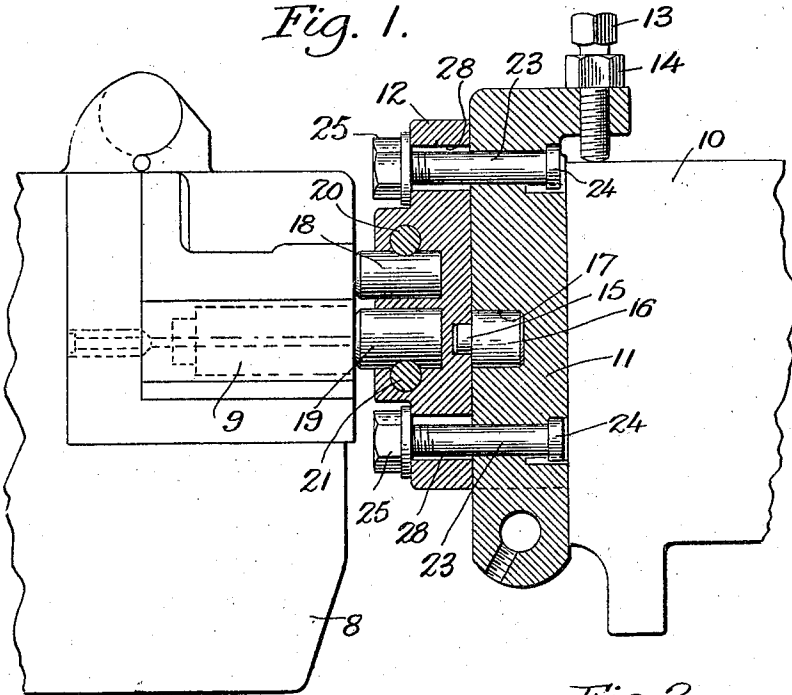


Fig. 2.

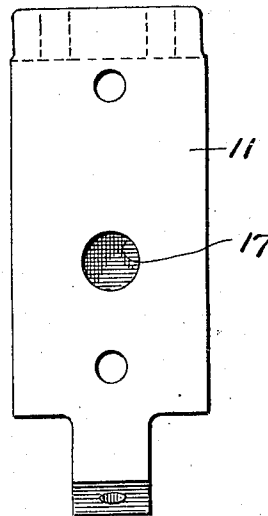
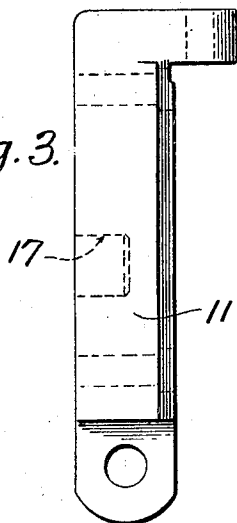


Fig. 3.



Inventor

Harold P. Deely.

H. P. Deely

By

Attorney

Dec. 11, 1923.

1,476,696

H. P. DEELY

SWIVEL BLOCK

Filed Aug. 20, 1921

2 Sheets-Sheet 2

Fig. 4.

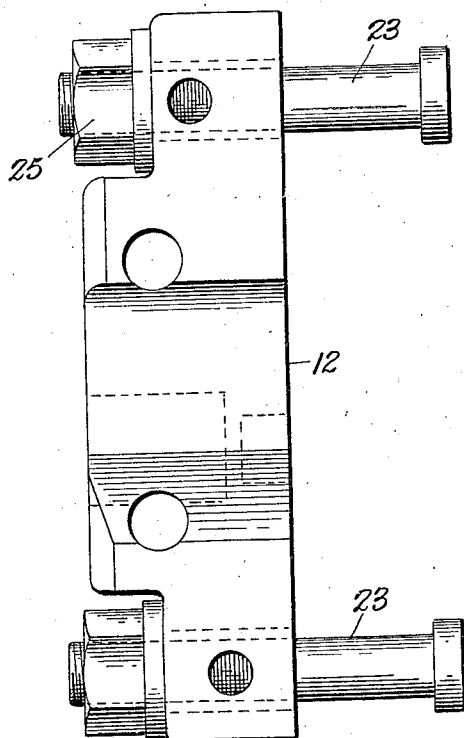


Fig. 5.

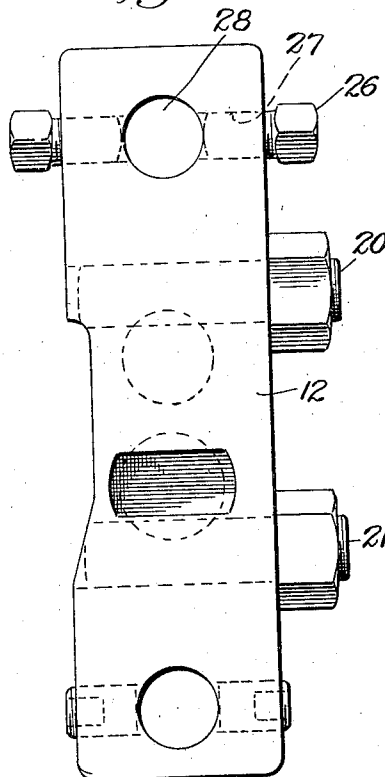
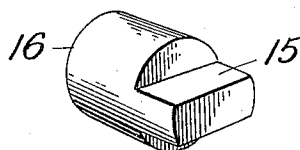


Fig. 6.



Inventor

Harold P. Deely.

By

H. H. Deely

Attorney

Patented Dec. 11, 1923.

1,476,696

UNITED STATES PATENT OFFICE.

HAROLD P. DEELY, OF WATERBURY, CONNECTICUT.

SWIVEL BLOCK.

Application filed August 20, 1921. Serial No. 493,841.

To all whom it may concern:

Be it known that I, HAROLD P. DEELY, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Swivel Blocks, of which the following is a specification.

The present invention relates to cold heading rivet machines and consists in the combinations and arrangements of elements hereinafter described and particularly set forth in the accompanying claims.

The invention has for its purpose to provide a swivel block for machines of this character which will permit of a simple and efficient means for conveniently adjusting the operative tools of the machine in order that each tool may be moved into its proper position without affecting the correct position of the other tool or tools.

A further purpose of the invention is to produce an adjustable swivel block which will do away with several parts now employed on cold heading rivet machines to the end of rendering the same more simple in construction, easy and convenient for operation, and to reduce the cost of constructing the machine as a whole.

The invention disclosed herein is proposed as an improvement over the type of swivel block shown in my United States Patent No. 1,377,005, dated May 3, 1921, and is characterized in that the punch holder is provided with a removable pin for mounting the same on the supporting block of the machine. This arrangement provides for easy assembly of the parts of the machine and also provides for a finer adjustment in alining the punch holder.

The invention is disclosed by way of illustration in the accompanying drawings, wherein:

Figure 1 is a longitudinal sectional view of the device mounted on a machine;

Figure 2 is a front elevational view of the swivel block holder;

Figure 3 is a side elevational view thereof;

Figure 4 is an enlarged detail view, in side elevation, of the punch holder;

Figure 5 is a rear elevational view thereof; and

Figure 6 is a detail perspective view of the pivot pin.

Referring to the construction in further detail, and wherein like reference char-

acters designate corresponding parts in different views shown, 8 is a fixed part of the heading machine used for the purpose of illustration, and 9 indicates the die held therein. The reciprocating gate 10 has suitably mounted thereon a block 11 supporting the swivel block 16, and 13 indicates the usual stop screw having a set or locking nut 14 as shown.

The punch holder 12 is provided with an elongated opening or slot to receive the correspondingly shaped portion 15 of the swivel block 16, and which block in turn is mounted to rotate within the recess or chamber 17 formed in the front face of the swivel block holder 11.

Mounted on the front of the punch holder 12 is a pair of punches 18 and 19 of any usual construction and adapted to be locked in position by the bolts 20 and 21 respectively; and said dies are adapted to be successively brought into alined position with respect to the die 9 as with machines of this type.

The means for securing the punch holder 12 to transfer slide or the block holder 11 consists of two bolts 23 passing through the member 11 and having heads 24 countersunk therein, and each of said bolts is fitted with an ordinary tightening nut 25 screw-threaded thereon, as shown.

The device for imparting fine adjustment to the punch holder after the same has been initially secured to the block holder 11 consists of a pair of threaded pins or screws 26 (one being shown) fitted within the threaded apertures 27 that enter the openings 28 through which the securing bolts 23 pass, and by means of these screws (adjusting screws 26) said punch holder may be slightly shifted from one position to another and such adjustment secured by tightening said pins 26 against the bolts 23, as will be understood.

It is obvious that those skilled in the art may vary the details of construction and arrangement of parts without departing from the spirit of my invention; therefore I do not wish to be limited to such features except as may be required by the claims.

Having thus described my invention what is claimed as new and desired to be protected by United States Letters Patent is:—

1. A die block holder for heading machines comprising a supporting member formed with a recess therein, a die holder

formed with a recess therein, a removable pin fitting within said recesses and pivotally mounting the die holder on said supporting member, bolts for clamping the die holder to said supporting member, and screws for adjusting the die holder on said supporting member, substantially as set forth.

2. A die block holder for heading machines comprising a supporting member formed with a cylindrical recess therein, a

die holder having an elongated recess formed therein, a pivot pin having a cylindrical and an elongated portion pivotally mounting the die holder on said supporting block, bolts for clamping the die holder to said supporting member, and screws for adjusting the die holder on said supporting member, substantially as set forth. 15

In testimony whereof I affix my signature.

HAROLD P. DEELY.