

June 16, 1925.

1,542,734

H. W. SHERFY

SHEET GRIPPER

Filed May 27, 1924

Fig. 1.

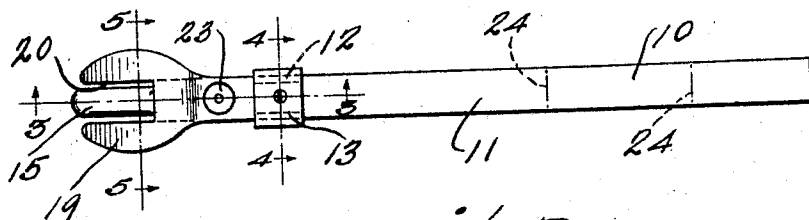


Fig. 2.

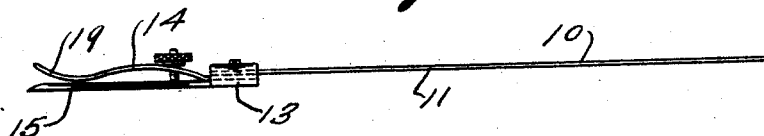


Fig. 3.

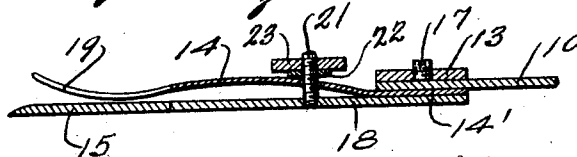


Fig. 4.

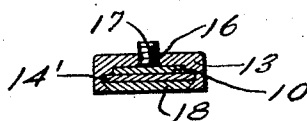
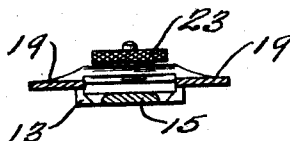


Fig. 5.



Inventor

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UNITED STATES PATENT OFFICE.

HAROLD W. SHERFY, OF COLUMBIA, LOUISIANA.

SHEET GRIPPER.

Application filed May 27, 1924. Serial No. 716,150.

To all whom it may concern:

Be it known that I, HAROLD W. SHERFY, a citizen of the United States, residing at Columbia, in the parish of Caldwell and State of Louisiana, have invented certain new and useful Improvements in a Sheet Gripper, of which the following is a specification.

This invention relates to improvements in sheet grippers adapted particularly for use on printing machines and the like.

An important object of the invention is to provide a sheet gripping device wherein the gripping means may be adjusted by rotating a knob or the like.

A further object of the invention is to provide a sheet gripper of this character wherein the engaging means may be readily adjusted to any desired position.

A still further object of the invention is the provision of a sheet gripper which may be quickly and accurately adjusted by means of a single rotatable member.

Other objects and advantages of this invention will be apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a plan view of my improved device,

Figure 2 is a side elevation of the same,

Figure 3 is a longitudinal sectional view taken on the line 3—3 of Figure 1,

Figure 4 is an enlarged sectional view taken on the line 4—4 of Figure 1, and

Figure 5 is a similar view taken on the line 5—5 of Figure 1.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 10 indicates a metallic strip which connects my device to a printing machine or the like. It consists of a comparatively long flat strip 11 having a comparatively short extension 12 formed on one extremity, the extension being reduced to suitably engage a retaining clamp 13.

The retaining clamp 13 is provided with a longitudinal groove therethrough the upper portion being adapted to receive the connecting strip 10 while the intermediate portion of the groove which is somewhat wider receives a fork bracket 14. The lower extremity of the groove formed in the clamp 13 is tapered and adapted to receive a suit-

ably formed extension of a tongue 15. The upper central portion of the clamp is provided with an internally threaded bore 16 adapted to receive a threaded set screw 17 threadedly mounted therein to retain the sections together.

The tongue 15 has a reduced extremity and is beveled upon its upper side, the supporting strip 18, upon which the tongue 15 is formed, is substantially the same width as the connecting strip 10, the clamp engaging portion having suitably tapering sides to engage the clamp. The fork bracket 14 is preferably constructed of spring metal and is bent to form an arc having formed on the extremity a flat extension 14' for connection with the bracket. The other extremity of the fork bracket 14 carries a pair of arcuate fork members 19 having a slot 20 formed therebetween. The slot 20 is preferably somewhat wider than the tongue 15 positioned thereunder for a purpose which will be hereinafter described. An externally threaded bolt 21 is securely mounted within the tongue supporting strip 18 and extends upwardly therefrom through a suitable opening formed in the fork bracket 14, the upper extremity of the bolt receiving a washer 22 and a knurled cap 23 threadedly mounted upon the bolt and adapted to adjust the fork bracket. As indicated by the dotted lines 24 the connecting strip 10 may be of any suitable length depending upon the character of the work and the machine upon which the device is mounted. It is considered advisable to provide numerous lengths of connecting strips which may be readily connected to the clamp 12 without affecting the other parts of the device.

In use, the device is especially adapted for use on printing machines, and more particularly to a machine known as a Miller feeder wherein it serves as the sheet gripping fork. The gripper is employed for the purpose of feeding sheets of paper or cardboard upon the machine, the sheets becoming superimposed upon the tongue 15 and securely held thereon by the fork 19 the prongs of the fork being adjusted by rotation of the cap 23. It is obvious that even adjustment of the fork, that is, the side prongs comprising the same, are obtained by adjustment of the knurled cap 23 and the device adapted to suitably handle paper or cardboard of any desirable weight.

It is to be understood that the form of my

invention herewith shown and described is to be taken as the preferred example of the same, and that various changes as to the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. A sheet gripper comprising a strip provided at one end with a clamp, a resilient fork bracket disposed along the strip and having one end portion secured in the clamp, the branches of the fork bracket being disposed beyond the opposite side edges of the strip and a set screw secured to the strip at the median longitudinal dimension thereof and passing transversely through the stem portion of the fork bracket and a nut threaded upon the screw and bearing against the

stem portion of the fork bracket at a point in the median longitudinal dimension thereof and adapted to move the inner edges of the branches of the fork bracket transversely with relation to the side edges of the strip. 25

2. A sheet gripper comprising a strip provided at one end with a clamp, a fork bracket secured at one end to the clamp and extending along the strip, a bolt fixed at one end to the strip and passing transversely through the fork bracket and a cap screw threaded upon the bolt and bearing against the surface of the fork bracket. 30

In testimony whereof, I have affixed my signature in the presence of two witnesses.

HAROLD W. SHERFY.

Witnesses:

KATE HARGIS,
M. L. MESOM.