L. H. BOWERS.

ADJUSTABLE GAGE.

APPLICATION FILED JUNE 2, 1914.

**1,147,602.** Patented July 20, 1915.

*Fig. 1.*

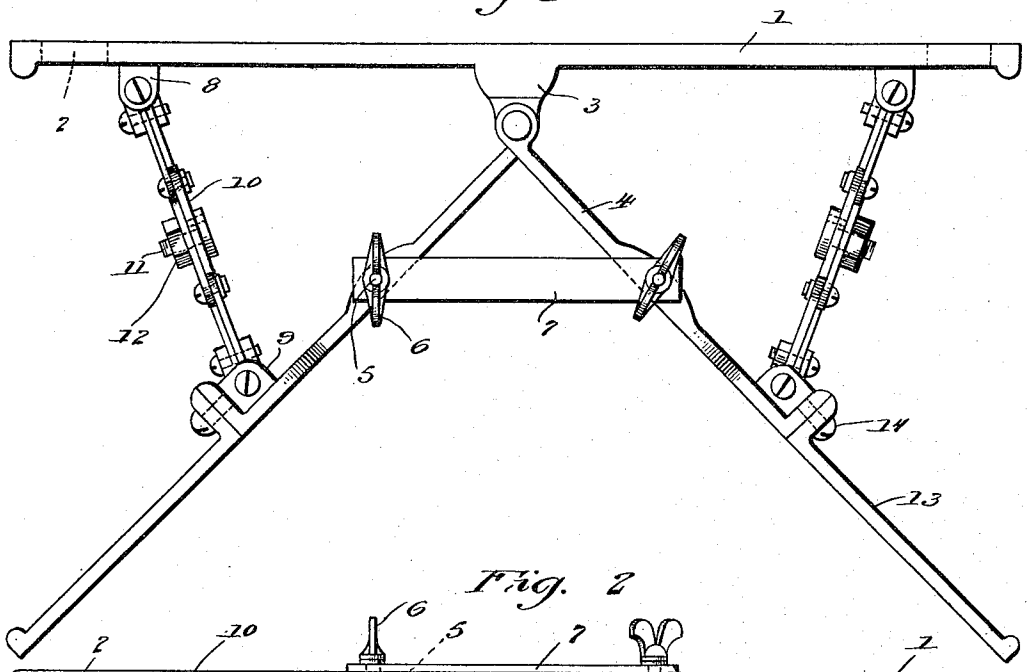



*Fig. 2.*

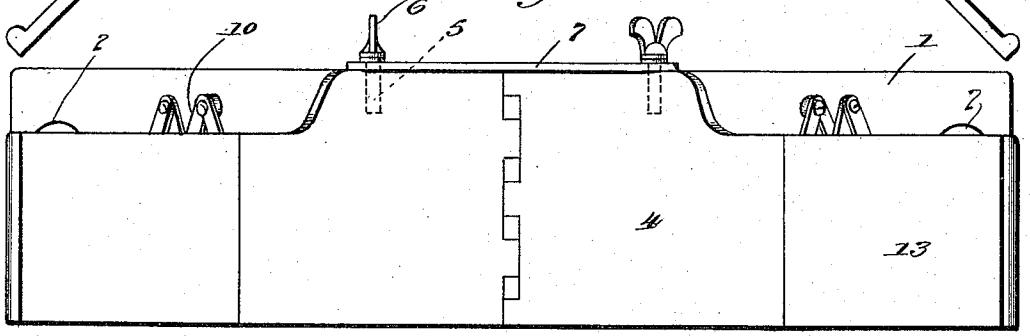
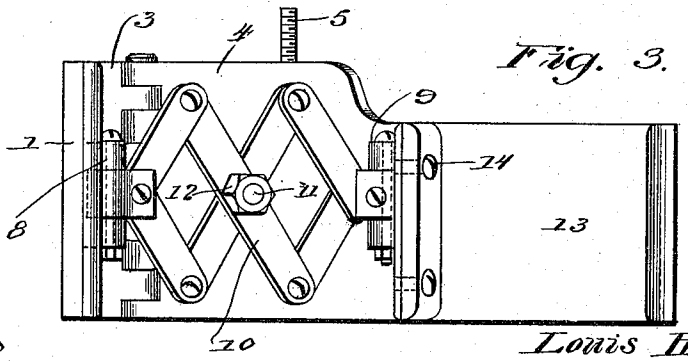



*Fig. 3.*




Witnesses

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# UNITED STATES PATENT OFFICE.

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## ADJUSTABLE GAGE.

1,147,602. Specification of Letters Patent. Patented July 20, 1915.

Application filed June 2, 1914. Serial No. 842,467.

*To all whom it may concern:*

Be it known that I, LOUIS H. BOWERS, a citizen of the United States of America, residing at Newark, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Adjustable Gages, of which the following is a specification.

This invention relates to paper cutter attachments and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide an attachment of simple and durable structure adapted to be applied to the paper moving bar of a paper cutter whereby a stack of paper may be moved over the bed of the paper cutter in order to bring a corner or any portion of the stack in proper position under the edge of the knife.

With the above object in view the attachment comprises a plate adapted to be connected with the bar of the cutter said plate having angularly disposed arms pivotally connected with the intermediate portion thereof. Means is provided for holding the said arms at a desired angle with relation to each other and other means are provided for locking the said arms in position with relation to the plate. The attachment is especially adapted to be used upon a paper cutter when it is desired to trim the corners from a stack of paper as for instance in the manufacture of tags or the like and detachable extensions may be applied to the arms when it is desired to use the attachment in connection with paper sheets of larger size than the ordinary commercial tags.

In the accompanying drawing, Figure 1 is a top plan view of the attachment. Fig. 2 is a front elevation of the same. Fig. 3 is a side elevation of the same.

The attachment comprises a plate 1 which is adapted to be applied to the front face of the usual paper moving bar mounted upon the bed of a press (not shown). The plate 1 is secured in position with relation to the said bar by means of securing bolts or devices which pass through the apertures 2 provided in the plate 1. The plate 1 is provided at a point intermediate its ends with a vertically disposed rib 3 to which is pivotally connected the inner ends of arms 4. The arms 4 are provided at their upper edges with threaded studs 5 upon which are screw threaded wing nuts 6. A cross strip 7 is placed over the stud 5 prior to tightening or applying the nuts 6 thereto and the said strip 7 holds the arms 4 at a desired angle with relation to each other. As shown in Fig. 1 of the drawing the strip 7 is of such a length as to hold the arms 4 at right angles to each other however it is to be understood that a strip 7 of another length may be employed whereby the arms 4 may be held at any desired angle with relation to each other.

Knuckles 8 are provided at the side of the plate 1 and other knuckles 9 are provided in the vicinity of the ends of the arms 4. The terminal links of sets of toggle links 10 are pivotally connected with the knuckles 8 and 9 and a bolt 11 passes transversely through the intermediate link of each set of links 10 as most clearly indicated in Figs. 1 and 3 of the drawing. A nut 12 is screw threaded on each bolt 11 and when the said nuts are tightened the bolts 11 are drawn whereby the crossed intermediate links of the sets of links 10 are fixed with relation to each other and consequently all of the links of each set of toggle links 10 are secured at an adjusted position. This arrangement renders it possible to brace the end portions of the arms 4 with relation to the end portions of the plate 1 while the attachment is in use.

The stack of paper which is to be cut, is placed between the arms 4 and then the paper bar of the cutter is moved over the bed thereof in the usual manner until the stack of paper is brought to a desired position under the edge of the knife. The knife is then permitted to descend whereby a corner portion of the stack of sheets is shorn from the same. The sheets are then turned around in their positions between the arms 4 and another corner portion of the stack may be removed.

When it is desired to use the attachment in combination with a stack of sheets of paper of comparatively large dimensions, extensions 13 are applied to the ends of the arms 4 and are secured with relation thereto by means of bolts 14 and thus the length of the arms 4 are increased or extended and the attachment may be used in combination with sheets of relatively large area or dimensions.

It will be noted that the extensions 13 are appreciably less in height than are the arms 4 so that when the attachment is used for operating on small work the clamping of such

work may be readily done with a clamp attached to the extensions 13, and this without piling up the stack with a filler which would be required to coöperate with the clamp in order to effect the clamping of the work if such reduction in height of the extensions were not present.

From the above description taken in conjunction with the accompanying drawing, it will be seen that a paper cutter attachment of simple and durable structure is provided and that the parts thereof may be easily and quickly adjusted in order to bring a desired line of a stack of paper under the knife of the cutter, whereby corner or any portions of the stack may be easily and quickly removed from the same.

Having described the invention what is claimed is:—

1. A paper cutter attachment comprising a plate, arms pivotally connected with plate, means for holding the arms at desired angles with relation to each other, toggle lever mechanisms connecting the end portions of the arms with the end portions of the plate and means for locking the members of the sets of toggle levers with relation to each other.

2. A paper cutter attachment comprising a plate, arms pivotally connected with the plate, means for holding the arms at a desired angle with relation to each other, sets of toggle levers pivotally connected with the plate and pivotally connected with the arms, bolts passing through the intermediate members of each set of toggle levers and nuts screw threaded upon the bolts and adapted when tight to lock the members of the sets of toggle levers with relation to each other.

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

LOUIS H. BOWERS.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."