

C. O. WHEARLEY.
GAGE FOR PAPER RULING MACHINES.
APPLICATION FILED FEB. 23, 1909.

935,716.

Patented Oct. 5, 1909.

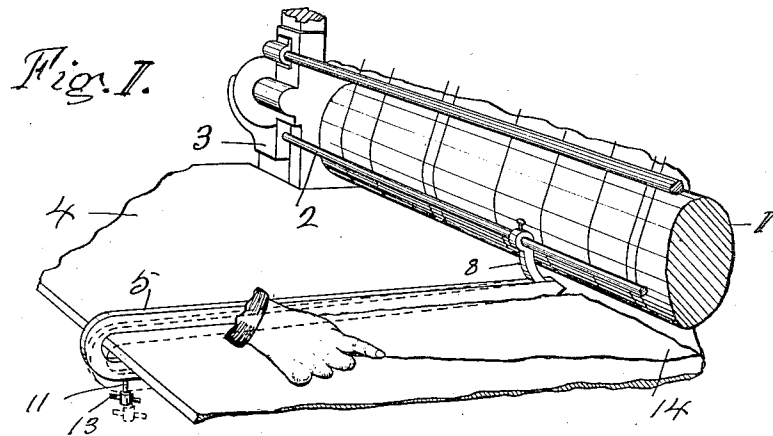


Fig. 2.

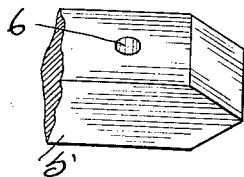


Fig. 3.

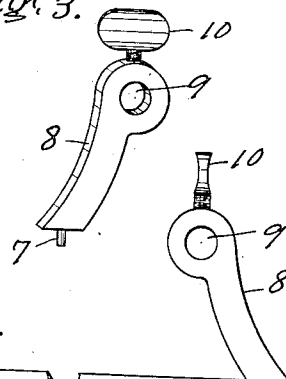
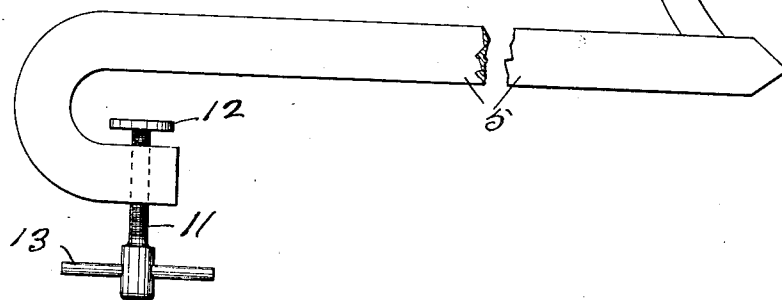


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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GAGE FOR PAPER-RULING MACHINES.

935,716.

Specification of Letters Patent.

Patented Oct. 5, 1909.

Application filed February 23, 1909. Serial No. 479,604.

To all whom it may concern:

Be it known that I, CLIFFORD O. WHEARLEY, a citizen of the United States, residing at Fort Wayne, in the county of Allen, in the State of Indiana, have invented certain new and useful Improvements in Gages for Paper-Ruling Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in gages for paper ruling machines.

It is well known that in paper ruling machines for printing the lines upon sheets of paper for ledgers and other blank books, it is necessary to either use a gage on the table to guide the sheet as it is fed into the printing machine, or it is necessary to adjust the form or pattern in the ruling machine every time there is a change of position of the form on the sheet, which adjustment necessitates considerable labor and a serious loss of time.

The object of my present invention is to provide a cheap, simple, convenient and reliable gage for paper ruling machines so constructed as to be easily adjusted and readily detached at pleasure; can be used for the feeding of a sheet upon either side thereof; can be used to feed a crooked sheet as well as a squared one; and has improved means for imparting rigidity to the forward end of the gage.

My invention consists of an angular metallic bar provided at its forward end with a swiveled and detachable arm slidably mounted upon a horizontal bar adjacent to the front face of the ruling machine, and having its rear end provided with a proper clamping means for firmly engaging the table from which the blank sheets are fed.

The principal novel feature of my invention resides in the construction whereby the gage can readily be adjusted upon the supporting table, and readily detached therefrom, and affords a limited lateral adjustment of its outer or rear end without disturbing the means for securing the other end thereof.

Similar reference numerals indicate like parts in the several views in which—

Figure 1 is a fragmentary perspective view of a common form of a paper ruling machine, with its feeding table, showing my invention in position thereon, one position thereof being shown in dotted outline, and also showing a ledger sheet in feeding position and in coöperative relation with the gage, and the hand of the operator. Fig. 2 is an enlarged fragment of the front end of the gage showing the vertical opening in the same to receive its swiveled connection with the detachable arm. Fig. 3 is a perspective detail of the swiveled arm which secures the forward end of the gage in position. Fig. 4 is a side elevation of the invention, partly broken away, showing the swiveled arm in position thereon, and showing the means for securing the outer end thereof.

All parts of my invention are preferably made of suitable metal.

The paper ruling machine 1, of which only a fragment is shown, is of well understood construction, and forms no part of my present invention. Adjacent to the front face of this machine is arranged a horizontal rod 2 whose ends are fixed in any suitable manner in the supporting frame 3 of the machine, and directly above the feeding table 4.

My invention consists of a steel bar 5 of proper dimensions, preferably rectangular in cross-section, and having a vertical opening or socket 6 in its upper face, near its forward end, to loosely receive the fixed or integral pendent pin 7 on the lower end of the arm 8, whose upper end has a lateral eye or opening 9 loosely receive the rod 2. This arm is preferably slightly curved for the purpose hereafter described, and has its upper end provided with a screw-threaded opening which intersects the lateral opening 9, and in which is mounted a thumb-screw 10 which firmly secures the arm to the rod 2 on which it is slidably mounted, in any desired position.

The forward extremity of the bar 5 is shown as tapering though this is immaterial. The other or rear end of the bar 5, which constitutes the body of the gage is downwardly curved, as shown, and has its extremity provided with a vertical screw-threaded opening in which is mounted a

screw 11 having upon its upper end a fixed disk 12 to engage the lower face of the table 4, and having its lower end provided with any suitable operating handle 13.

5 The manner of employing my invention thus described is obvious and briefly stated is as follows: To place my invention in position the operator first places the arm 8 in its pendent relation with the rod 2, and secures
10 it firmly in any desired adjustment thereon. He next places the bar 5 flat on the table 4 in transverse relation therewith, and springs the arm 8 into its engagement with the socket 6, by slightly raising the rod 2, and then rigidly
15 secures the outer end of the bar to the table by means of the clamp-screw 11. By curving the arm 8 and projecting its lower end forward of the rod 2 it is out of the way of the paper in feeding. The operator now
20 places the sheets of paper 14 one at a time on the table, and squares them up for feeding in the usual manner, the operation of feeding them to the ruling machine being well understood. It is obvious that any desired
25 lateral adjustment of the bar 5 can readily be made to suit the size of the form or pattern, by loosening the screws 10 and 11, and shifting the arm 8 on the rod 2, and the bar 5 on the table 4, and that the outer end of the
30 gage can be laterally adjusted, as shown in dotted outlines in Fig. 1, without disturbing the arm 8 because of its swiveled connection therewith. This adjustment is necessary to make a sheet which is not perfectly rectan-
35 gular conform to the pattern in the machine to which the sheet is fed. This is believed to be a novel feature. It is also obvious that the sheet of paper 14 can be fed from either side of the gage with equal convenience and facility, as is sometimes desirable,
40 particularly in printing upon both sides of a sheet, and that the bar 5 can quickly be removed from the table by loosening the screw

11 and detaching it from the arm 8. By thus firmly securing the bar 5 at both ends, 45 it is less liable to accidental displacement in use, and its rigidity is materially increased.

Having thus described my invention and the manner of employing the same, what I desire to secure by Letters Patent is: 50

1. A gage for paper ruling machines, consisting of a rigid bar in right-angular relation to the front face of the machine; an upright arm detachably mounted on the forward end of the bar and having a swiveled 55 connection therewith; means for slidably supporting the arm in a pendent relation; and means for rigidly securing the outer end of the bar in any desired lateral adjustment.

2. A paper ruling machine gage, consisting of a bar whose outer end is downwardly curved and provided with a clamping screw; a fixed rod in transverse relation to the forward end of the bar; an arm slidably mounted on the side rod in a pendent relation 65 therewith, and whose lower end has a swiveled connection with the forward end of the bar.

3. In a device of the class specified, the combination of a bar having one end downwardly curved and provided with a clamping device, and having its other end provided with a vertical socket; an upright arm having its lower end provided with a terminal lug to fit the socket by a swiveled connection; and means for adjustably suspending the said arm in its cooperative relation with the said bar. 70

Signed by me at Fort Wayne, Allen county, State of Indiana, this 20th day of 80 February, 1909.

CLIFFORD O. WHEARLEY.

Witnesses:

AUGUSTA VIBERG,
WATTS P. DENNY.