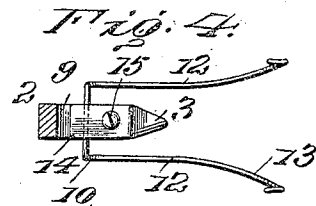
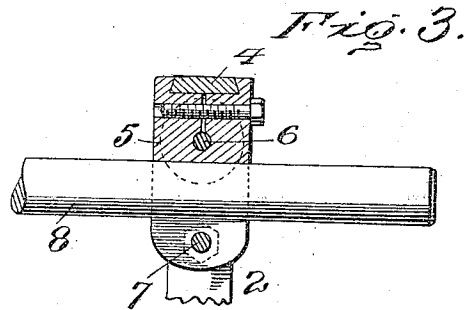
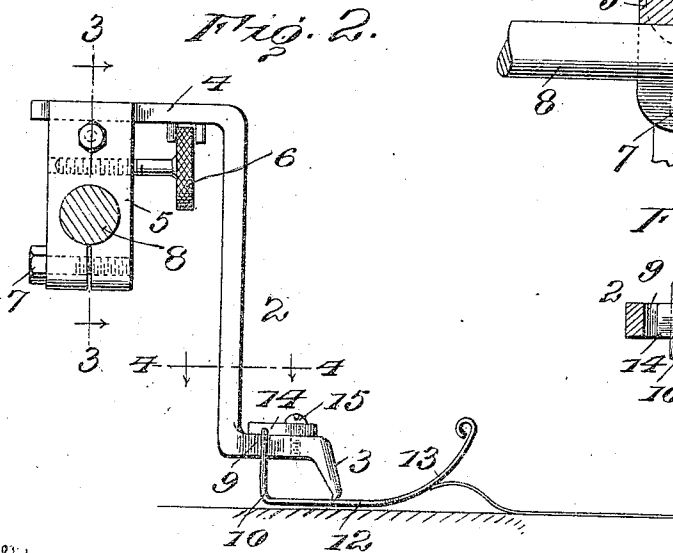
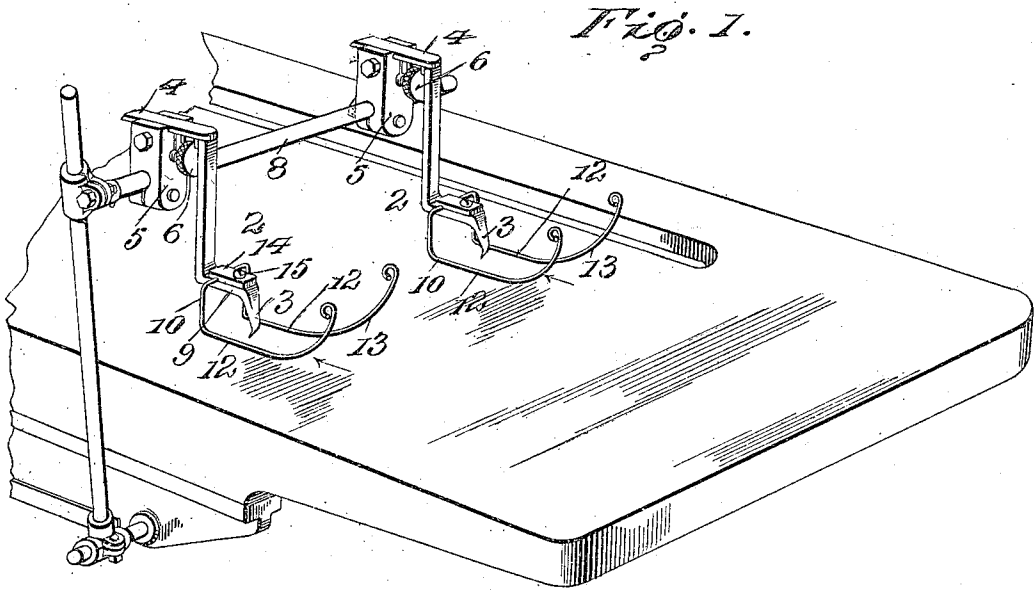


W. F. MINNICK.
GAGE FOR FEED TABLES.
APPLICATION FILED MAY 10, 1909.

961,457.

Patented June 14, 1910.



Witnesses

W. A. Williams
F. S. Magnus

Inventor

William F. Minnick

By

J. H. M. M. M.
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM F. MINNICK, OF NILES, OHIO, ASSIGNOR TO THE HARRIS AUTOMATIC PRESS COMPANY, OF NILES, OHIO, A CORPORATION OF OHIO.

GAGE FOR FEED-TABLES.

961,457.

Specification of Letters Patent. Patented June 14, 1910.

Application filed May 10, 1909. Serial No. 495,047.

To all whom it may concern:

Be it known that I, WILLIAM F. MINNICK, of Niles, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Gages for Feed-Tables; and I do hereby 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.

In certain classes of printing great accuracy is required in feeding or positioning the stock. This is especially true where the stock is passed several times through a press, perfect register being essential each time the stock is fed to the press in order to prevent overlapping. Where the stock is positioned by being fed to two or more marks difficulty is frequently experienced if there is the slightest bend or curl in the stock.

The primary object of my invention is, therefore, to provide simple and highly efficient means for insuring proper positioning of stock irrespective of any bend or curl therein; and a further object is to so form the pointers or gages to which the stock is positioned as to afford little or no obstruction in the view of the operator.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawing, Figure 1 is a view in perspective, portions of the feed table being broken away. Fig. 2 is an enlarged view of one of the pointers and its guide, the support being shown in section. Fig. 3 is a section on line 3—3, Fig. 2. Fig. 4 is a section on line 4—4, Fig. 2.

Referring to the drawings, 1 designates a feed table of the type wherein stock is positioned at one or both ends and then transferred to a second position to be fed into a printing press after the manner contemplated by the means shown and described in the application for patent of Walter H. Smith filed January 13, 1909, Serial No. 472,085. Above this table I mount two gages or pointers 2, each of which is provided with a pointed or sharpened end 3 set a slight distance above the surface of the table. I have shown each pointer as composed of a vertically disposed bar having an upper horizontally extended portion 4 which may

be adjusted back and forth in a supporting block 5 by turning the milled head of a screw 6 engaging lugs of said bar. Each supporting block is adjustably held by a screw 7 on a horizontally-disposed rod 8 which extends transversely of the table. The lower end of the upright portion of each bar has a second horizontal extension 9 from which depends the pointer proper. This pointer is shown as having a beak-like formation and its extreme end as reduced to a sharp point. Usually two gages or pointers are used in order to secure accuracy of register, which may be effected by causing predetermined marks or points on the stock to coincide with the two pointers.

For the purpose of insuring the proper register of all stocks, no matter how bent or curled it may be, and at the same time avoid obstructing the view of the operator, I provide each gage or pointer with a skeleton-like guide 10. This guide is shown as being formed from a continuous wire having two parallel portions 12 which lie on opposite sides of the pointer and extend forward and rearward thereof on about the same plane as the lower pointed end of the pointer and parallel with the table top. The extreme outer ends of the wires are bent upwardly as at 13 to insure the edges of bent or curled stock passing beneath the parallel portions of the guide when being brought to register. An upwardly extended portion of the wire, which connects the two parallel portions of a guide, is passed over the lower horizontal portion 9 to which it is removably held by a plate 14 and screw 15.

By means of my invention, not only will all stock be presented in a flattened condition beneath the pointers, but the view of the operator is not impaired in the slightest by the presence of the guides which extend on both sides of the pointers and forward and rearward thereof. Regardless of any change in the position of the pointers relative to the table top, the guides maintain the same relation to the pointers, and require no independent adjustment.

Although I have described my pointer in connection with the feeding of stock to a printing press, it will be understood that it may be employed in connection with a trimming machine, or, in fact, any form of

paper-handling machine wherein the stock is fed to marks to insure accuracy of register.

I claim as my invention:—

- 5 1. In combination with a feed-table, a support extending above and parallel with said feed-table, a plurality of pointers mounted on said support and having their lower ends pointed or reduced, and guides
10 extending on opposite sides of each pointer forward and rearward of the reduced ends thereof.
2. In combination with a feed-table, a support extending above and parallel with said
15 feed-table, a plurality of pointers mounted on said support and having their lower ends pointed or reduced, and a guide mounted on each pointer and extending on opposite sides thereof forward and rearward of its
20 reduced end.
3. In combination with a feed-table, a support extending above and parallel with said feed-table, a plurality of pointers mounted on said support and having their
25 lower ends pointed or reduced, and a guide removably secured to each pointer and extending on opposite sides thereof forward and rearward of its reduced end.
4. In combination with a feed-table, a
30 support extending above and parallel with said feed-table, a plurality of pointers

mounted on said support and having their lower ends pointed or reduced, each pointer having an off-set above its reduced end, and a guide secured to the off-set of each pointer and extended on opposite sides thereof forward and rearward of its reduced end. 35

5. In combination with a feed-table, and a support extending above and parallel with said feed-table, a pointer depending from said support and terminating in a pointed or reduced end, means for adjustably securing the pointer to said support, and a guide carried by the pointer and extending forward and rearward of its reduced end on
45 opposite sides thereof.

6. In combination with a pointer comprising a bar having a sharpened or reduced end, a stock guide consisting of a continuous wire bent to form parallel portions on opposite sides of such end, the ends of such wire being bent or curved upwardly, and means for detachably securing the wire to the bar. 50

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses. 55

WILLIAM F. MINNICK.

Witnesses:

C. G. PRITCHARD,
EUGENE WITHERSTAY.