To all whom it may concern:

Be it known that I, WILLIAM GODSEEN, a citizen of United States of America, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Printers' Guides, of which the following is a specification.

Printers' Guide.

This invention relates to guides or gages for printing presses.

The primary object of the invention is the provision of a gage of the class described, which when applied insures a uniform placing of the sheets to be printed upon the platen so that the same will secure an accurate register of the printed matter with the marginal edges of the paper.

Another object of the invention is the provision of a gage which is readily and quickly applied to the tympan sheet or top sheet by slitting the same, and which after being inserted in said slit is readily adjustable with relation to said slit.

A further object of the invention is the provision of a gage of the class described which may be readily adjusted within the slit of the top sheet and locked in its adjusted positions.

A further object of the invention is the provision of a gage or gage of the class described, which combines a longitudinally and vertically adjustable guide strip which is associated with the upper jaw of the guide, so that it may be moved longitudinally in order that the same may be drawn back when it is desired to use the press for close margin work.

A still further object of the invention is the provision of a construction whereby the forward end of the guide strip is adjustable through the forward end flange of the upper jaw for either thick or thin work, as in the case where the printing may be on cardboard.

A still further object of the invention is the provision of an article of the class described which is of very simple construction thoroughly reliable and efficient in its operation and inexpensive to manufacture.

With these and other objects in view, it is thought that the nature, purpose and operation of the device will be readily understood when the specification and claims are taken in connection with the accompanying drawings of which:

Figure 1 is a fragmentary perspective view of the platen and tympan sheet with the guide as associated therewith.

Fig. 2 is a longitudinal section through the same, and

Fig. 3 is the front elevation of the device, showing the guide strip in an adjusted position for thick work.

Fig. 4 is a detail cross section through the guide.

Fig. 5 is a bottom plan view.

Referring to the drawing by reference characters A represents the platen and B the tympan sheet which is clamped thereon, both of which are of the ordinary construction. C designates a slit which is cut in the tympan sheet for the reception of the guide or gage which comprises a lower jaw 19 of a substantially rectangular formation, and an upper jaw 11 which is of similar configuration. The lower jaw 10 is provided with oppositely disposed upstanding ears 12 and arranged in close proximity to the forward edges are a plurality of openings 13. The upper jaw 11 is provided for the major portion of its side lengths with the downwardly extending marginal side flange 15. A pin or rivet 16 movably associates the 85 jaws for pivotal movement, said pin passing through the ears 12 and the side flanges 14 near the rear end of the device. Arranged on the under side of the flanges 14 and 15, near the forward end of the device are a series of depending pointed projections or teeth 17 which are adapted, upon contact of the jaws, to register with and enter the openings 13 in the lower jaw. Coiled about the rivet 16 and confined between the ears 12 is a spring 18, the legs of which tend to normally exert pressure upon the jaws at the rear extremity thereof for the purpose of bringing the jaws at their forward end into contacting relation. Underlying the bottom face of the top jaw 11 is a guide strip 19, which is preferably of resilient material, said strip is guided at its rear end through a bearing 20 which is stamped from the jaw 11. The forward end of the guide strip is slightly upturned and extends through the U shaped slot 21, the branches of which are adapted to lock the strip in its several horizontal planes in order that the guide strip may be adjusted for thick or thin work.
In operation of the device, the rear ends of the jaws are grasped between the fingers and manipulated to open the forward end of the jaws, the lower jaw 10 is then inserted through the slot C to underlie the tympan sheet B. Upon releasing the rear end of the jaws, they contact under pressure of the spring and when the exact position or adjustment with relation to the slit is had a further pressure is brought to bear on the top jaw 11, forcing the teeth 17 through the tympan sheet and into the openings 18 thus locking the gage to said sheet. When the work is of the close margin type the guide strip 19 may be moved longitudinally with the relation to the jaw 11, so that the end protruding through the slot 21 may be brought closer to the flange 15 so as not to interfere with the action of the type carrier. A further adjustment of the guide strip is provided for by providing the slot 21 as shown, so that the same may be engaged in the upper leg or offset of the slot 21 for thick work or the lower leg for thin work.

Having thus described the invention, it is thought that the device will be readily understood by those skilled in the art and a more extended description has been omitted.

What is claimed is:

1. In combination with a tympan sheet, having a slit therein of a gage comprising a lower jaw, adapted to enter said slit and an upper jaw pivoted thereto, having a marginal flange depending therefrom, teeth on the lower edge of said flange, registering openings adjacent the edges of the lower jaw, adapted to receive said teeth, means for normally forcing the jaws together and a resilient longitudinally slidable guide strip interposed between said jaws, said strip being adjustable vertically and longitudinally.

2. In combination with a tympan sheet, having a slit therein of a gage comprising a lower jaw, adapted to enter said slit and an upper jaw pivoted thereto, having a marginal flange depending therefrom, teeth on the lower edge of said flange, registering openings adjacent the edges of the lower jaw, adapted to receive said teeth, means for normally forcing the jaws together and a resilient longitudinally slidable guide strip interposed between said jaws, guided at its rear end in the upper jaw and adjustable vertically at its forward end.

3. In combination with a tympan sheet, having a slit therein of a gage comprising a lower jaw, adapted to enter said slit and an upper jaw pivoted thereto, having a marginal flange depending therefrom, teeth on the lower edge of said flange, registering openings adjacent the edges of the lower jaw, adapted to receive said teeth, means for normally forcing the jaws together and a resilient longitudinally slidable guide strip interposed between said jaws, guided at its rear in the upper jaw, and a slot in the forward portion of the depending flange to receive the forward end of said strip and means for holding said strip in its vertically adjusted positions within said slot. In testimony whereof I affix my signature.

WILLIAM GJODESEN.

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