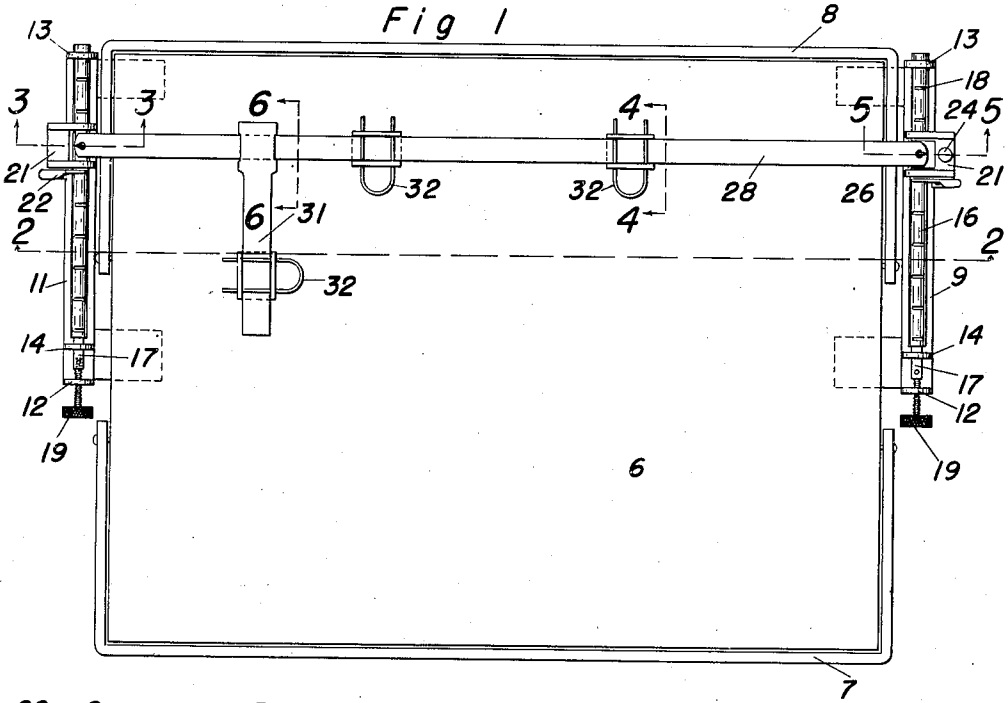
July 13, 1948. C. LANZENDORFER 2,445,143

PAPER FEED GAUGE FOR PRINTING PRESSES

Filed Oct. 2, 1946

Fig 1



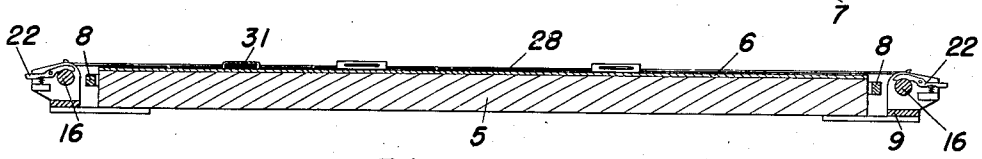


Fig 2

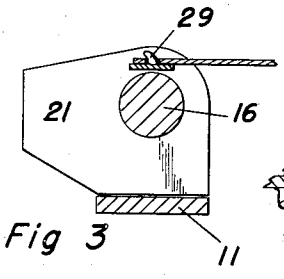
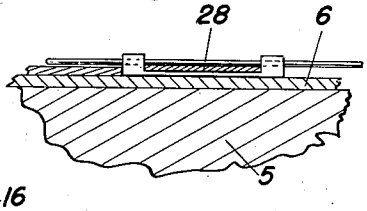


Fig 3

Fig 4



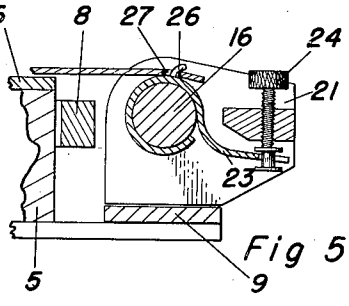


Fig 5

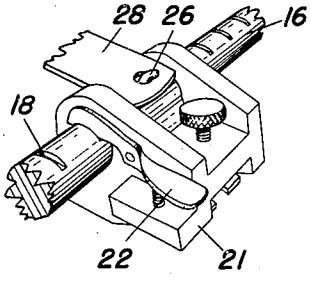


Fig 7

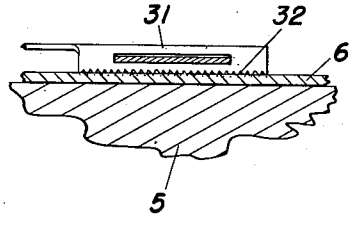


Fig 6

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UNITED STATES PATENT OFFICE

2,445,143

PAPER FEED GAUGE FOR PRINTING PRESSES

Carl Lanzendorfer, San Francisco, Calif.

Application October 2, 1946, Serial No. 700,791

1 Claim. (Cl. 101—413)

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This invention relates to improvements in paper feed gauge for printing press.

The principal object of this invention is to provide a gauge which may be attached to any flat platen press for the purpose of holding a sheet of paper to be printed.

A further object is to provide a device of this character which is adjustable to accommodate for the exact positioning of the paper.

A further object is to produce a device of this character which is economical to manufacture and one which may be quickly and easily attached to the press.

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

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

Fig. 1 is a top plan view of my invention as the same would appear when attached to the bed of the press.

Fig. 2 is a cross sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a cross sectional view on an enlarged scale taken on the line 3—3 of Fig. 1.

Fig. 4 is a cross sectional view on an enlarged scale taken on the line 4—4 of Fig. 1.

Fig. 5 is a cross sectional view on an enlarged scale taken on the line 5—5 of Fig. 1.

Fig. 6 is a cross sectional view on an enlarged scale taken on the line 6—6 of Fig. 1, and

Fig. 7 is a fragmentary detailed perspective view of the slide and clamp.

In the printing art it is common practice to secure to the platen of the printing press a sheet of paper known as the tympan, upon which an impression may be taken and to them secure to the tympan stops against which a sheet of paper may be aligned in two directions so that absolute registration will take place on the sheet of paper positioned against the stops. This registration is very important, particularly in over-printing, as for instance, in color work.

Applicant has devised a simple arrangement whereby these stops may be very accurately positioned and held so positioned during the printing operation.

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates the usual flat platen of a printing press upon which the tympan 6 is held by U-shaped retainers 7 and 8.

The construction thus far described is common

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to the majority of printing presses of this type.

My invention consists of a pair of substantially U-shaped brackets as shown at 9 and 11. As both of these brackets are the same but one will be described.

The bracket 9 has its two arms connected to the under-side of the platen and has upturned ends 12 and 13 and an upstanding lug 14. This bar lies parallel to the sides of the platen.

A bar 16 has one end thereof slidably mounted in the upturned end 13 and has its opposite end squared, as shown at 17 and slidably mounted through a squared opening in the lug 14.

Slots 18 are formed in the upper surface of the bar 16, the purpose of which will be later seen.

In order to move the bar 16 longitudinally I provide an adjusting screw 19 which has threaded engagement with the upstanding portions 12 and rotary engagement with the squared end 17, the result being that by rotating the adjusting screw, the bar 16 may be moved slightly forward or rearwardly.

Slidably mounted on each of the bars 16 is a carrier designated as a whole by the numeral 21 and each carrier has a pivoted retaining latch 22, the nose of which is adapted to engage one of the slots 18 through the action of a spring.

One of the carriers is also provided with a tightening band 23 rotatably mounted on the bar 16 and held in adjusted position by a thumb screw 24.

A lug 26 projects from the tightening band and is adapted to engage an opening 27 formed in the holding strip 28. The opposite end of this holding strip is connected to the slider 21 through the medium of a lug 29 secured thereto.

Movable on the holding strip 28 is a right angle arm 31 having teeth 32 which engage the tympan 6.

Slidably positioned on the holding strip and the right angle arm are the customary paper engaging hold-downs 32.

The result of this construction is that when my device is attached to a printing press by loosening the tightening band 23 through the medium of the screw 24, the holding strip may be loosened and then the sliders on the opposite sides of the press may be roughly adjusted to its approximate position.

The right angle arm may also be adjusted sidewise to its approximate position and then by adjusting the screws 19 the bars 16 may be given a vernier adjustment and the right angle arm 31 may then be properly adjusted sidewise, after which, by tightening the screw 24 the holding

strip **28** will be tightened, pulling down upon the teeth **32** and causing them to imbed in the tympan **6**.

Now, when a piece of paper is brought against the holding strip and the right angle arm, it will be in the exact position upon which the printing is to be impressed.

It will thus be seen that I have produced a device which will accomplish all of the objects above set forth.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:

In a device of the character described, a pair of spaced brackets mounted parallel to the sides of the platen of a printing press, each of said brackets having upstanding lugs, a bar slideably supported in the lugs of each of said brackets, means for adjusting said bars longitudinally of said brackets, a slider mounted on each of said bars, means for retaining said sliders in adjusted position on said bars, a holding strip extending between said sliders, a tightening band surrounding one of said bars and movably positioned by one of said sliders and having hooked engagement with one end of said holding strip, and means for rotating said band about said bar to effect a tightening of said holding strip, whereby paper holding means may be positioned on said platen.

CARL LANZENDORFER.

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