

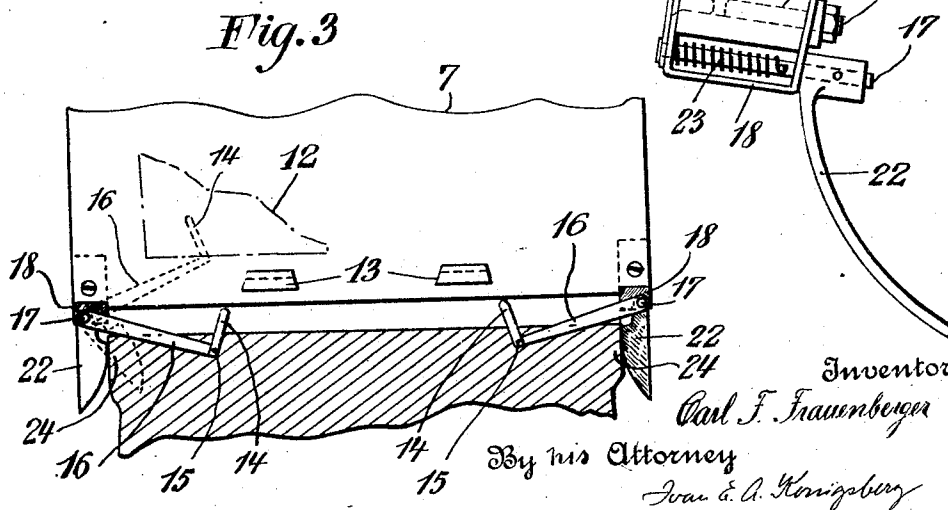
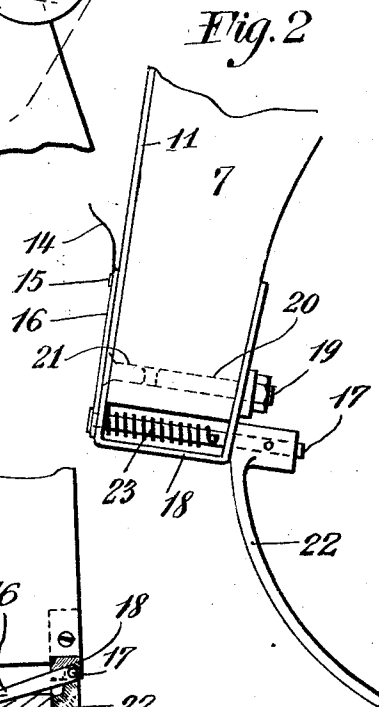
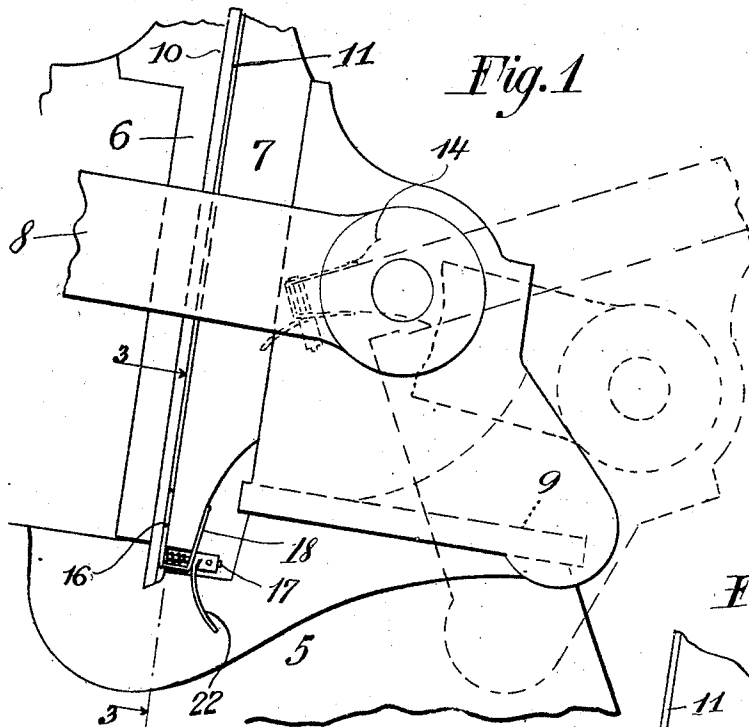
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SAFETY PAPER STOP GAUGE

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SAFETY PAPER STOP GAUGE.

Application filed April 17, 1925. Serial No. 23,788.

This invention relates to improvements in safety paper stop gauges for platen printing presses, cutters, creasers and like machines.

5 The object of the invention is to provide safety paper stop gauges of simple, practical and novel construction particularly well adapted for use with heavy platen presses to be automatically operated or actuated by the 10 press itself.

Another object of the invention is to so construct and arrange the safety paper stop gauges that they may be easily and quickly 15 attached to the machine without requiring any material alteration thereof.

With the foregoing objects in view my invention is disclosed in the following specification and illustrated in the accompanying 20 drawing in which—

Figure 1 is a partial side view of a press equipped with my improved gauges.

Figure 2 is an enlarged detail view of one of the gages with parts broken away.

25 Figure 3 is a sectional view on line 3—3 of Figure 1 with parts broken away.

Referring to Figure 1 the press illustrated is of well known type comprising in general a suitable framework or support 5 having a fixed bed 6 and a platen 7. The latter 30 is operated from the press by connecting rods as 8 (only one is shown) to rock or oscillate on a track 9 in a well known manner. The numeral 10 denotes the chase and 11 denotes the usual steel facing sheet on the 35 platen.

In operation the paper, indicated at 12 in Figure 3, is fed against the usual gauges or stops 13. But because of the high speed at which the machine must be operated in order 40 to be commercially profitable, there is danger of the sheet being fed to the platen so rapidly and hurriedly that the sheet will override the stops 13 and not register.

It is therefore necessary to provide means 45 for momentarily arresting the movement of the sheet before it reaches the stop 13 so that it may gradually slide into position.

Such means consists in this instance of suitable yielding stop fingers 14 adjustably 50 pivoted or secured at 15, 15 to gauge arms 16, 16. There is a stop finger at each side of the platen and as they are alike, the description of one of them will suffice for this disclosure.

55 The gauge arm 16 is secured to a short shaft

17 which is rotatably mounted in a supporting bracket 18 adapted to fit over the edge or corner of the platen. The bracket is secured by means of a bolt 19. The hole 20 for receiving the bolt is conveniently bored in longitudinal alinement with a screw 21 which 60 secures the facing 11 to the platen.

The shaft 17 carries a cam 22 and is surrounded by a spring 23 which normally 65 tends to turn the shaft so as to keep the gauge arm and stop finger in the safety position shown in dotted lines in Figure 3. That is, the spring constitutes a means for maintaining the stop finger in sheet receiving 70 safety position, and also for automatically returning the finger to such position after impression.

The cam 22 is shaped to cooperate with the portion 24 of the frame as shown in 75 Figure 3.

The operation is as follows: When the platen is in sheet receiving position, the safety stop fingers are in similar position as shown in dotted lines in Figure 3. When 80 the sheet is fed to the platen, it slides down thereon and is met by the finger 14, which, as the platen moves down to impression position, gradually recedes and moves off the platen due to the fact, that the cams 22 about the frame at 24 and are gradually 85 moved outward.

The parts are so timed and arranged that the paper slides down against the stops 13 in proper registered position before the 90 press closes, at which time the safety stop fingers are moved entirely off the platen. When the latter opens, the fingers are again moved into safety position by the springs 23.

The stop fingers are easily and quickly 95 attached to the platen and do not interfere with the work of the press. They prevent overriding of the paper over the stops 13 and insure that the sheet is in proper printing position. 100

The connection at 15 between the stop finger and the gauge arm may be of any desired construction for the purpose of adjusting the angular position of the finger 105 with respect to the sheet.

I claim:—

1. In a platen press the combination with the platen, of paper stop devices therefor comprising brackets mounted at the lower 110 corners of the platen, shafts in said brackets,

- paper stopping gauges carried by said shafts, springs for normally moving said gauges in over the platen to momentarily arrest the movement of a sheet thereon and
- 5 cams secured to the said shafts for gradually moving said gauges off the platen as the latter moves into impression position, said cams being actuated by contact with a fixed portion of the press.
- 10 2. In a platen press the combination with the platen, of paper stop devices therefor comprising supporting brackets mounted on the platen, paper stopping gauges rotatably mounted in said brackets, and extending
- 15 in the path of the movement of a sheet of paper fed to said platen, movable means adapted to contact with a fixed portion of said press for operating said gauges away from the platen as the latter moves into impression position and means for automatically moving said gauges back in over the platen when the latter moves into sheet receiving position.
3. Safety paper stop gauges of the character described comprising a supporting bracket, a shaft journaled therein, a paper stop gauge member mounted on one end of said shaft outside the bracket, an operating cam mounted outside said bracket on the other end of said shaft and adapted to rotate the latter in one direction, and a spring within said bracket for automatically rotating the shaft in the opposite direction.
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