March 20, 1928. 1,663,197

C. W. GLASNAPP

PRINTING PRESS

Filed Feb. 8, 1927

Fig. 1.

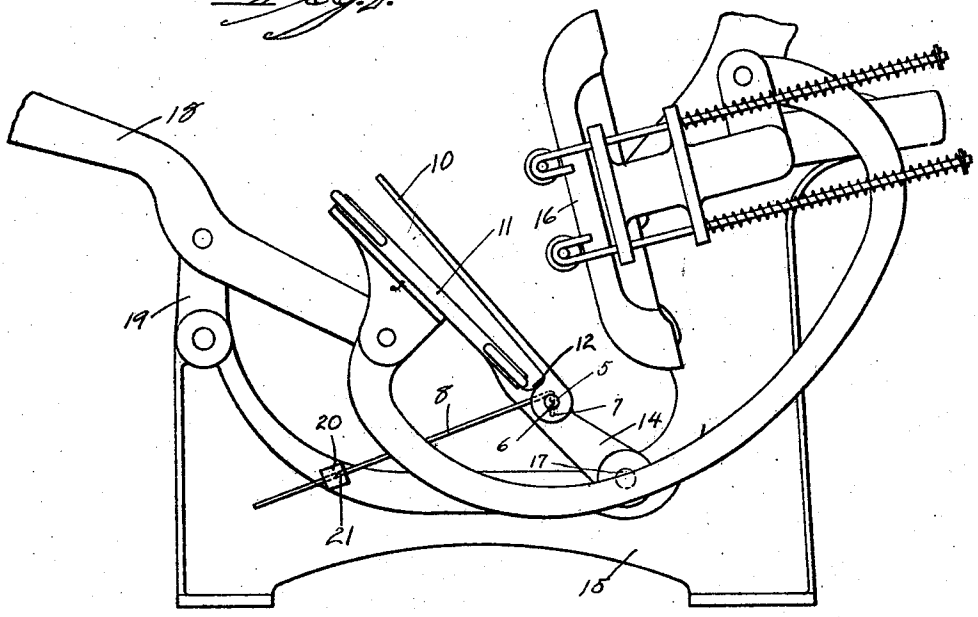


Fig. 3.

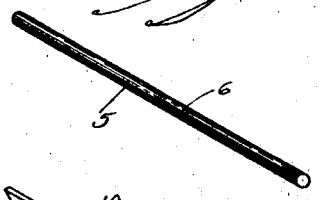


Fig. 4.

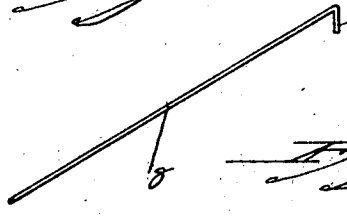
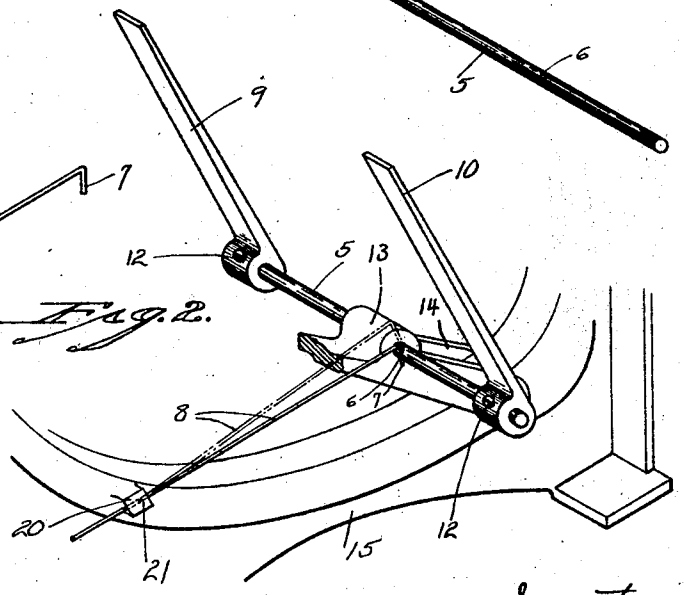


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES W. GLASNAPP, OF MERIDEN, CONNECTICUT, ASSIGNOR TO THE KELSEY PRESS COMPANY, OF MERIDEN, CONNECTICUT, A CORPORATION.

PRINTING PRESS.

Application filed February 8, 1927. Serial No. 166,655.

This invention relates to an improvement in printing presses and particularly to hand presses of the type having oscillating platens.

The object of this invention is to provide a printing press in which the gripper mechanism may be readily mounted and demounted.

With this object in view, my invention consists in a printing press characterized by its provision with a gripping-finger shaft having a transverse socket for the reception of a coupling-finger formed at the outer end of a reciprocating gripping-finger spring.

My invention further consists in a printing press characterized as above and having certain other details of construction and combination of parts as will be hereinafter recited in the claims.

In the accompanying drawings:

Fig. 1 is a broken view in side elevation of a printing press embodying my invention;

Fig. 2 is a broken perspective view of a portion of the press-frame and the gripper-mechanism mounted thereon;

Fig. 3 is a detached perspective view of the gripper-finger shaft; and

Fig. 4 is a corresponding view of the gripper-finger spring.

In carrying out my invention, as herein shown, I provide the gripper-finger shaft 5 with a diametrical socket 6 for the reception of the downwardly-bent finger 7 formed at the forward end of a spring-arm 8, which, as will hereinafter appear, yieldingly maintains a pair of gripper-fingers 9 and 10 in spaced relationship to the oscillating platen 11 of the press.

The gripper-fingers just mentioned are respectively mounted, by means of set-screws 12, upon the opposite ends of the gripper-finger shaft 5 above referred to, which, in turn, is journaled midway of its length in a bearing-lug 13 formed upon a bifurcated platen-arm 14.

The platen 11 is pivotally mounted upon the press-frame 15 with capacity for oscillatory movement toward and away from the usual type-holding chase 16 by means of a pin 17 extending transversely through the lower end of the platen-arm 14 and through the printing-press frame 15. The oscillatory movement of the platen 11 is effected by means of the usual hand-lever 18 mounted by means of a link 19 to the upper rear end of the frame 15 aforesaid.

To provide a bearing in which the spring-arm 8 may reciprocate, the frame 15 is formed upon its side with a laterally-offsetting lug 20 having a longitudinal bearing-passage 21 for the reception of the said arm.

A downward pressure upon the hand-lever 18 will serve to swing the platen 11 toward the chase 16, so as to cause its forward face to engage the rear faces of the gripper-fingers 9 and 10 with the effect of also rocking the said fingers and their shaft 5 against the counterurge of the spring-arm 8, which, under the movement just described, will be caused to bow and to slide forward in the bearing-passage 21.

Under my invention, therefore, should it be desired to remove the shaft 5 for any reason, it is only necessary to bend the spring-arm 8 upward, so as to disengage its downwardly-bent finger 7 from the socket 6 in the said shaft.

I claim:

1. In a printing press, the combination with the frame and oscillating platen thereof, of a transversely-arranged gripping-finger shaft carried by the said platen, gripper-fingers mounted upon said shaft, a transverse socket formed in said shaft, a reciprocating spring-arm provided at one end with an offsetting coupling-finger adapted to enter the said socket and to be yieldingly held therein by the tension of the spring-arm, and a bearing mounted upon the said frame for the reception and guidance of the said spring-arm.

2. In a printing press, the combination with the frame and oscillating platen thereof, of a transversely-arranged gripping-finger shaft carried by the said platen, gripper-fingers mounted upon said shaft, a diametrical socket formed in the said shaft, a reciprocating spring-arm provided at one end with an offsetting coupling-finger adapted to enter the said socket and to be yieldingly held therein by the tension of the spring-arm, and a bearing-plug formed upon one side of the said frame for the reception and guidance of the said spring-arm.

In testimony whereof, I have signed this specification.

CHARLES W. GLASNAPP.