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C. W. GLASNAPP

PRINTING PRESS

Filed Feb. 8, 1927

Fig. 1.

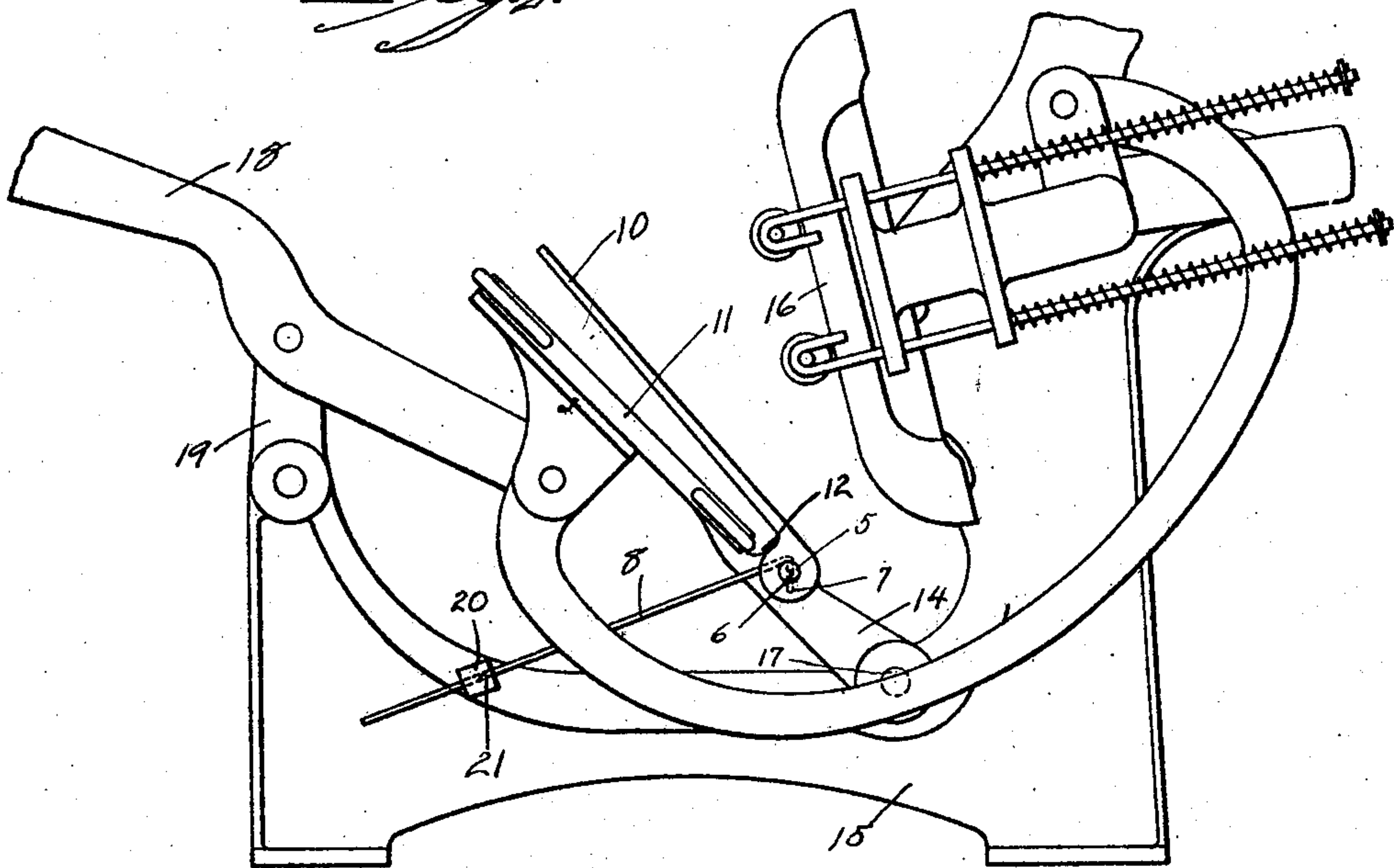


Fig. 3.

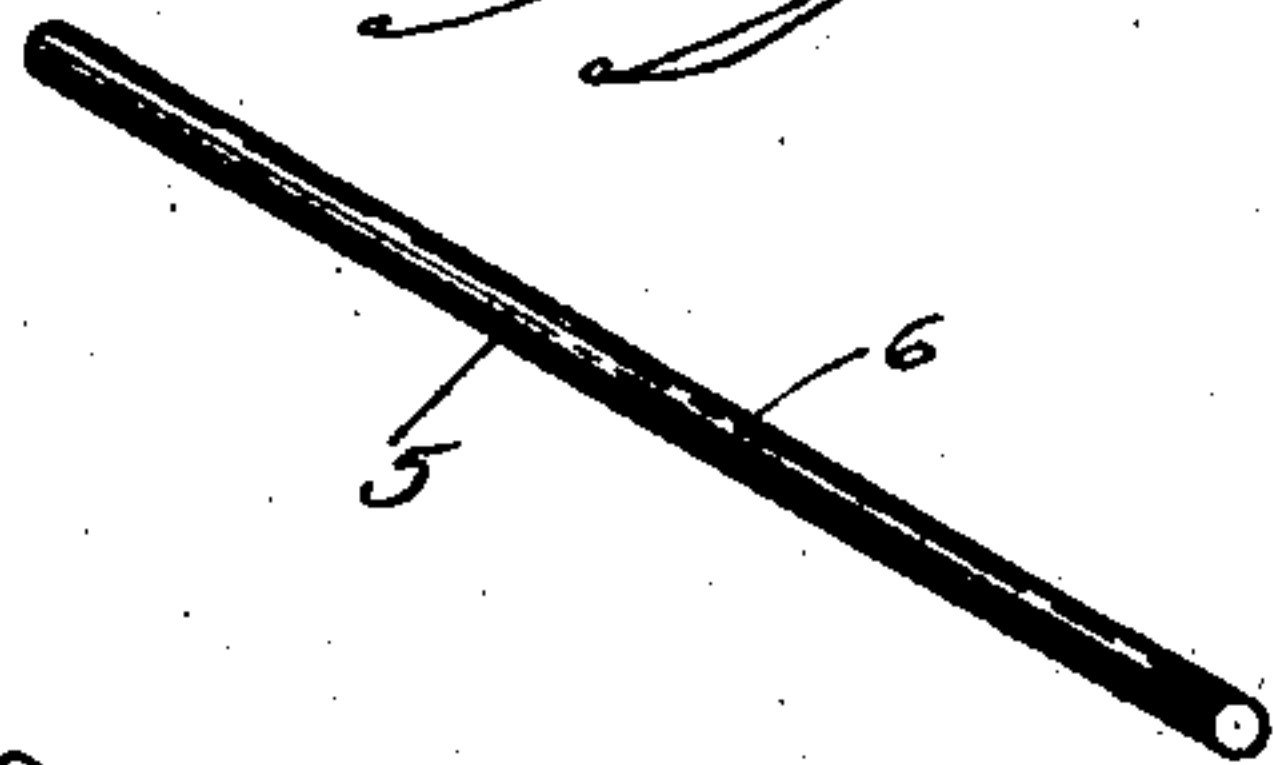


Fig. 4.

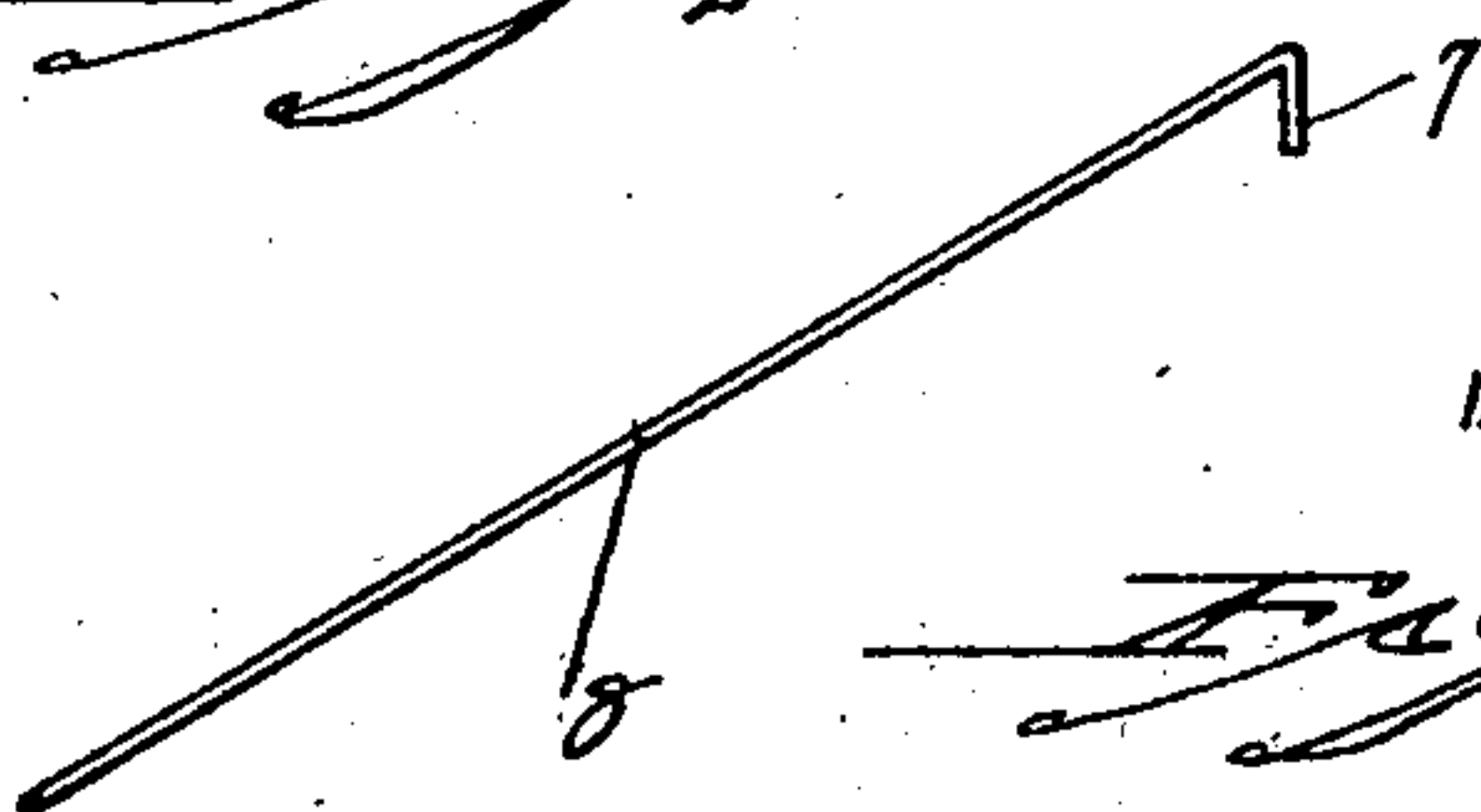
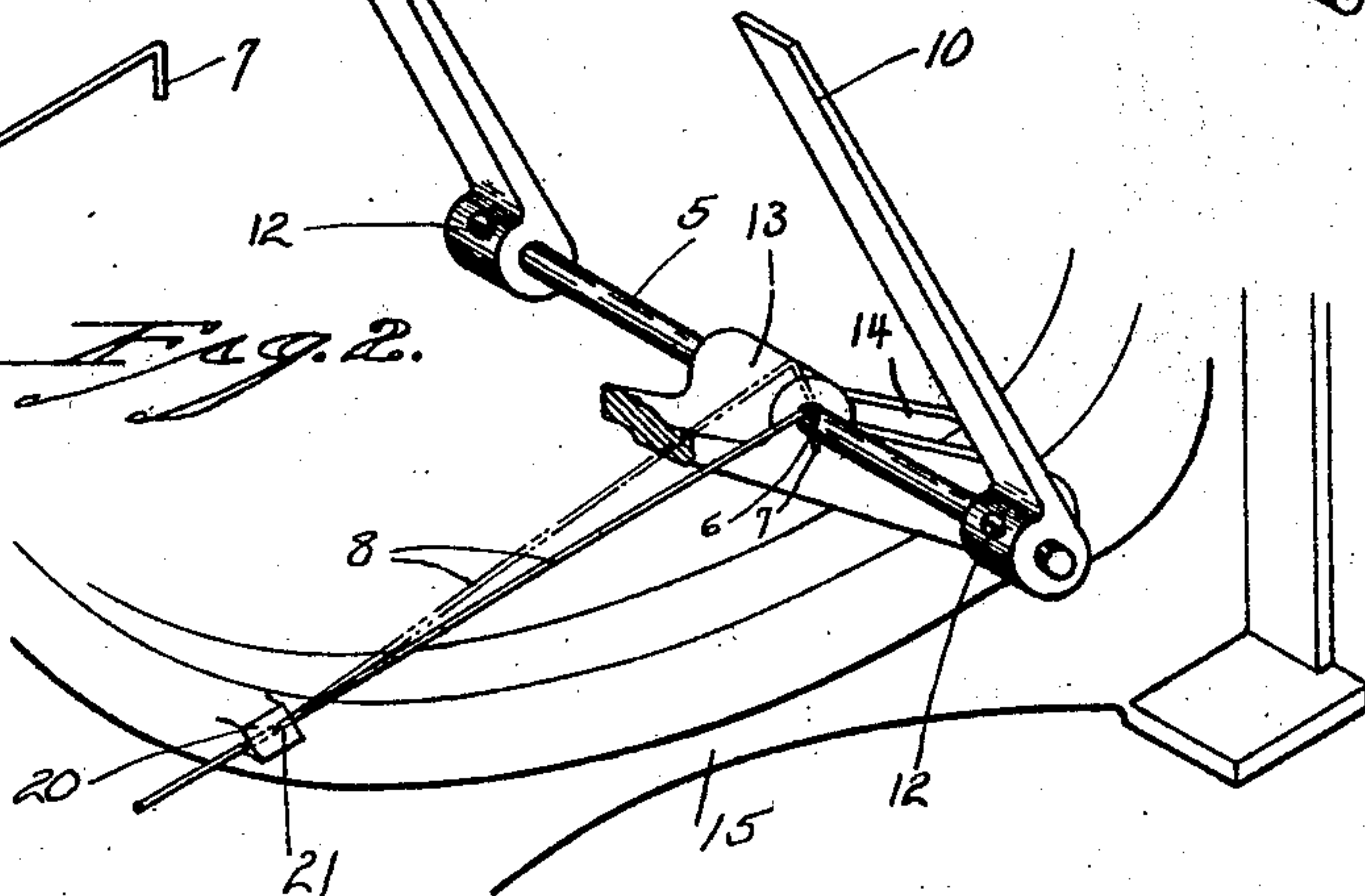


Fig. 2.



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UNITED STATES PATENT OFFICE.

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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.

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

10 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.

15 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.

20 In the accompanying drawings:

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

25 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.

30 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.

40 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.

45 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 55 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-60 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-65 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 70 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 down-75 wardly-bent finger 7 from the socket 6 in the said shaft.

I claim:

1. In a printing press, the combination 80 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 85 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 90 spring-arm.

2. In a printing press, the combination 95 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 100 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 105 specification.

CHARLES W. GLASNAPP.