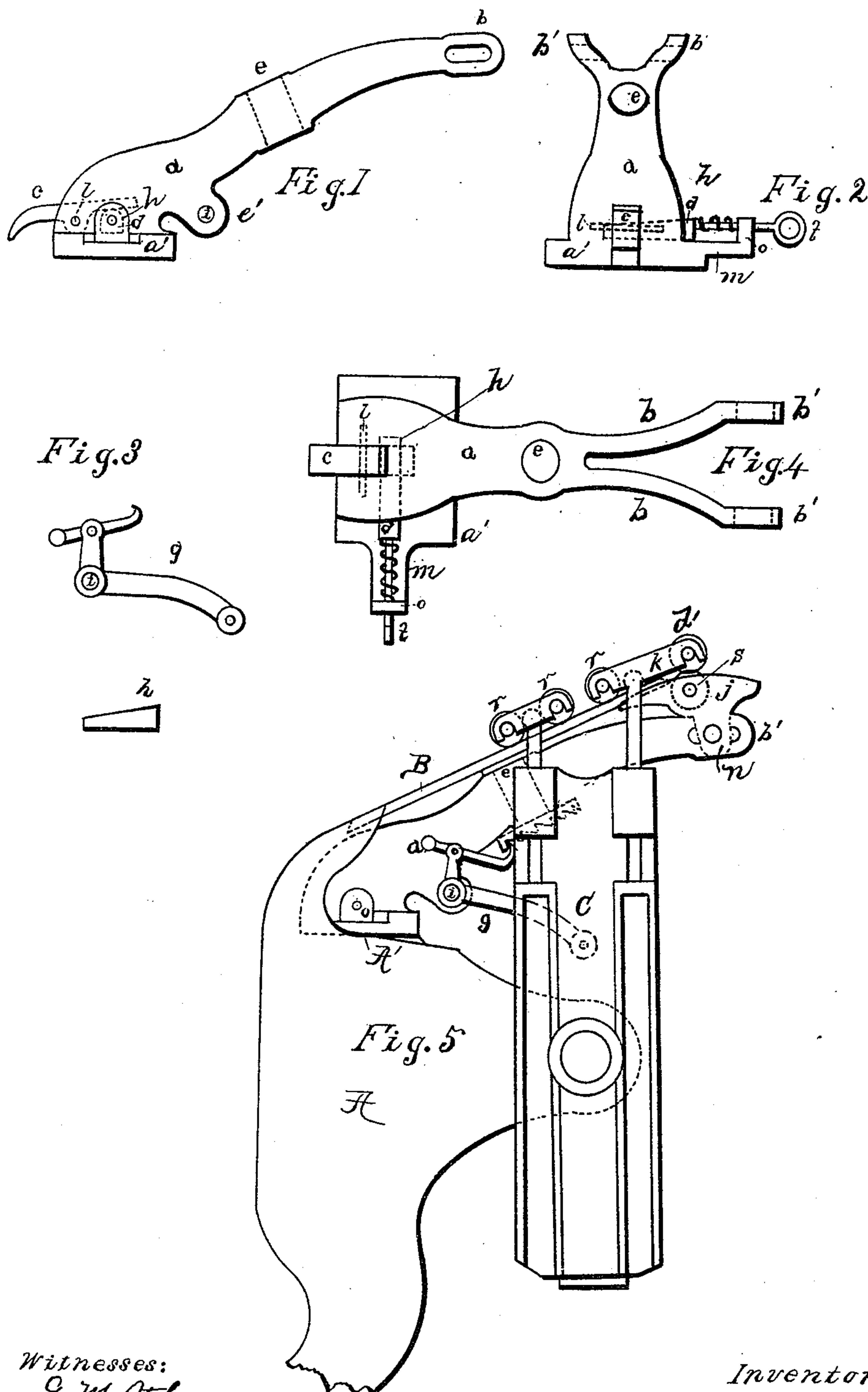


(No Model.)

H. SWAIN.  
PRINTING PRESS.

No. 464,485.

Patented Dec. 1, 1891.



Witnesses:  
G. W. Stroh  
C. E. Perkins

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# UNITED STATES PATENT OFFICE.

HADWEN SWAIN, OF SAN FRANCISCO, CALIFORNIA.

## PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 464,485, dated December 1, 1891.

Application filed October 16, 1889. Serial No. 327,253. (No model.)

*To all whom it may concern:*

Be it known that I, HADWEN SWAIN, a citizen of the United States of America, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Printing-Presses, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention relates to that class of printing-machines commonly known as "platen" or "jobbing" presses, and has for its object improvement in the construction of the inking attachments to the bed-frame thereof.

15 The present application embraces features consisting of a throw-off, an oscillating bed, and an ink disk, fountain, and distributing roller, shown and claimed in a previous application filed by me the 10th day of February, 1888, Serial No. 263,561, and hence no claim is made to such features in the present case.

20 It consists of the several novel features of construction and new combinations of parts hereinafter fully described, and pointed out in the claims.

25 In the drawings, Figure 1 is a side view, Fig. 2 a front view, and Fig. 4 a top or plan view, of my improved bracket for the support of the ink-disk and its pawl-lever, the ink-fountain, and the chase-hook and its operating devices. Fig. 3 is a side view of said pawl-lever; and Fig. 5 is a side view of a portion of the bed-frame of a press of the class referred to, with the ink-disk, the fountain, and the inking-rollers in position.

30 The bed-frame A, constructed in the usual manner to receive the form of types on its front face, is provided on its rear side, near the top, with a shelf A', to which is bolted the bracket receiving and supporting the parts hereinbefore mentioned. This bracket *a* has a base *a'*, adapted to fit upon the shelf on the bed-frame. From this base the body of the bracket rises and extends backward in an inclined direction, its upper part branching into two divergent arms *b*, terminating in two parallel bearings *b'*, Fig. 4, which are slotted longitudinally. Intermediate to these bearings and the base there is formed in the bracket a circular perforation *e*, and in a

rearwardly-extending lug *e'* is a smaller circular perforation *i*. In the bracket at the base is formed a recess opening outward, and at right angle to this recess a second recess 55 is formed on the base of the bracket. In this first-mentioned recess is mounted the chase-hook *c*, pivoted on a pin *l*, and in the second recess lies the wedge *h*, working under the tail of the hook to force its front end down 60 to clamp the chase to the bed. From one side of the brace of the bracket extends an arm *m*, having a lug *o* on its end, perforated for the passage of a hand-rod *t*, connected to the wedge *h*. Between the lug *o* and the 65 wedge is placed a spiral spring, acting to force the wedge inward under the tail of the hook. In the circular bearing *e* in the bracket is mounted the spindle of the ink table or disk B. On the lower end of this spindle is secured an annular ratchet, the teeth of which 70 are engaged by the weighted pawl pivoted to the lever *g*. This lever has a bearing corresponding to the perforation *i* in the lug *e'* on the bracket whereon the lever is pivoted. 75 The long arm of the lever is connected to or engaged by any convenient part of the press, so as to actuate the pawl and give intermittent rotary motion to the ink-disk.

80 The ink-fountain *j* has on its under side lugs *n*, through perforations in which and the slots in the bearings *b'* pass bolts by which the fountain is secured in position. The fountain is thus rendered adjustable back and forth in the slots and also pivotally on the 85 bolts, so that its position may be very accurately and very readily regulated.

90 The vibrating inking-roller frame C is of the usual construction, having at the ends of its spring-actuated sliding rods the saddles engaging the journals of the form-inking rollers *r*. In the upper one of these saddles *k* I have also mounted the transfer and distributing roller *d*, the office of which is to take ink from the roller *s* in the fountain and distribute it upon the disk B. In order that this duty may be efficiently performed without requiring the saddles to travel too far back, I have lengthened the rear arms of the upper saddles *k*, so that proper contact of rollers *d* and *s* is secured with a minimum backward movement of the roller-frame and its 100



saddles and without extreme tension on its spring-rods.

Having thus described my invention, what I desire to secure by Letters Patent is—

- 5 1. For a printing-press, the supporting-bracket having bearings for the ink table or disk and for the pawl-lever operating the same and for the ink-fountain above the disk, substantially as described.
- 10 2. For a printing-press, the supporting-bracket having bearings for the ink-fountain, for the ink table or disk, for the pawl-lever operating the latter, and for the chase-hook and its operating devices, substantially as de-  
15 scribed.
3. For a printing-press, the bracket having in its base recesses for the chase-hook and its wedge, at its upper end parallel bearings for the ink-fountain, and intermediate bearings  
20 for the spindle of the ink table or disk and its pawl-lever, substantially as described.
4. In a printing-press, the combination, with the bed-frame thereof having a shelf on

its rear side, of the bracket having a base se-  
cured to said shelf and supporting the ink- 25  
fountain and the ink table or disk and its  
pawl-lever, substantially as described.

5. In a printing-press, the combination, with the bracket having parallel slotted bear- 30  
ings, of the ink-fountain having perforated  
lugs whereby the fountain is secured to said  
bearings and is adjustable back and forth  
and pivotally, substantially as described.

6. In a printing-press, the inclined ink ta-  
ble or disk and the fountain mounted above 35  
it, combined with the vibrating roller-frame,  
the form-inking rollers, and the saddles, the  
upper one of which has rearwardly-length-  
ened arms bearing a transfer and distribut-  
ing roller, substantially as described. 40

In testimony whereof I affix my signature in  
presence of two witnesses.

HADWEN SWAIN.

Witnesses:

C. E. PERKINS,  
G. M. STOLZ.