W. C. EVANS.

OSCILLATING PRINTING-PRESS.

No. 169,532. Patented Nov. 2, 1875.

Fig. 1

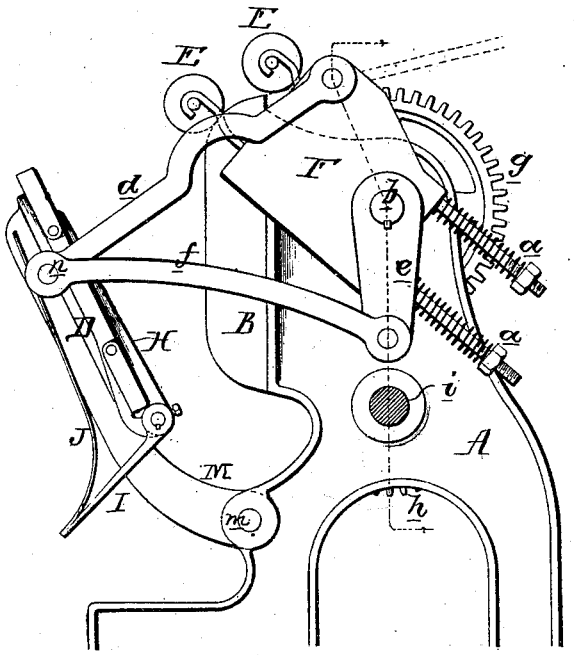


Fig. 2

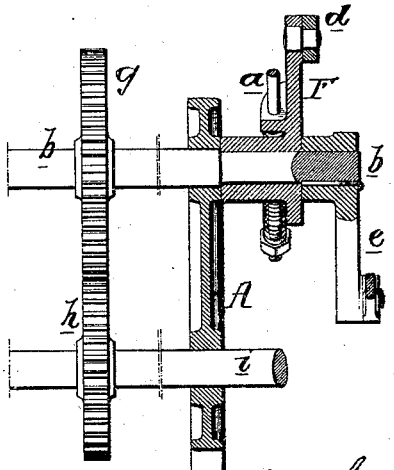
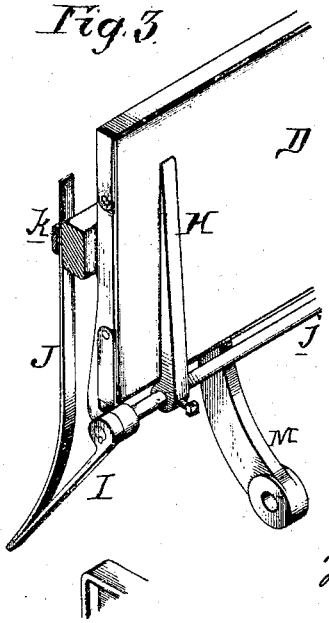


Fig. 3



Witnesses:-
E. H. E. Kfeldt.
Harry Smith

Wm C. Evans.
by his Attorneys
Howson & Howson

UNITED STATES PATENT OFFICE

WILLIAM C. EVANS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN OSCILLATING PRINTING-PRESSES.

Specification forming part of Letters Patent No. **169,532**, dated November 2, 1875; application filed July 14, 1875.

To all whom it may concern:

Be it known that I, WILLIAM C. EVANS, of Philadelphia, Pennsylvania, have invented certain Improvements in Printing-Presses, of which the following is a specification:

My invention relates to that class of printing-presses in which a vertical or inclined bed is combined with a hinged platen; and the object of my invention is simplicity and economy of construction—an object attained in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a side view of a printing-press with my improvements; Fig. 2, a vertical section, and Fig. 3 a perspective view of parts of the press.

A represents one of the two opposite side frames of the press; B, the bed, and D the platen, the latter being secured to or forming part of arms M, which are hinged at *m* to the frame of the press. To suitable bearings in the opposite frames is adapted the shaft *b*, and to each end of this shaft is secured an arm, *e*, each arm being connected by a rod, *f*, to a pin, *n*, on the platen, to which the desired vibrating motion can be imparted either by the vibration or rotation of the said shaft *b*. Two arms, F, carrying the inking-rollers, are hung loosely to the shaft *b*, each arm being connected by a rod, *d*, to a pin, *n*, of the platen, so that the latter, when the press is in operation, imparts the desired vibrating movement to the said roller-carrying arms.

It will be evident to those familiar with the construction of printing-presses of the class to which my invention relates that, by making the shaft *b* available as a medium for carrying the roller-arms F, simplicity and economy of construction are attained.

The inking-rollers E E have their bearings on the ends of spring-rods, which are adapted to guides on each of the arms F, and these rollers move over and in contact with the face of the type on the bed B, as well as the surface of an inking-plate secured to the frame of the press, as shown by dotted lines in Fig. 1.

When a small press made according to my invention has to be operated by hand the shaft *b* may be provided with a suitable lever and handle, by manipulating which a vibrating motion may be imparted to the said shaft; but for power-presses I use a supplementary driving-shaft, *i*, carrying a pinion, *h*, which gears into a wheel, *p*, on the shaft *b*.

I do not desire to claim, broadly, a printing-press in which a hinged platen is connected to cranks on the driving-shaft, and also to an inking-frame hung to the said shaft; but

I claim as my invention—

The combination of the shaft *b*, having cranks *e*, connected to a pin, *n*, on the hinged platen D, with the inking-frame F, hung loosely to the shaft *d*, and connected to the said pin *n* of the hinged platen, all as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

W. C. EVANS.

Witnesses:

EDWARD H. ECKFELDT,

HARRY SMITH.