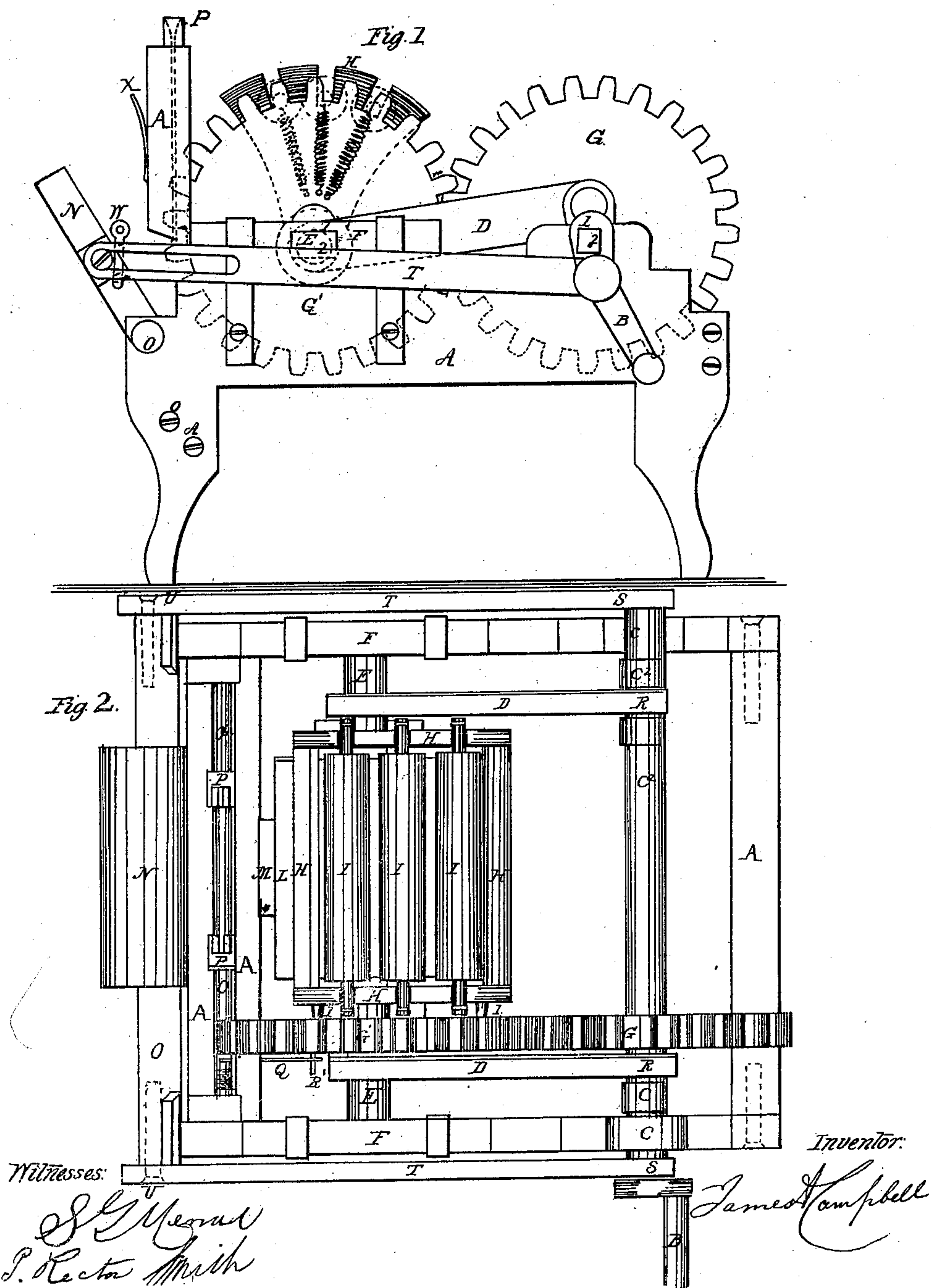


J. A. CAMPBELL.
PRINTING PRESS.

No. 24,538.

Patented June 28, 1859.



UNITED STATES PATENT OFFICE.

JAMES A. CAMPBELL, OF NEW ORLEANS, LOUISIANA.

JOB AND CARD PRINTING PRESS.

Specification of Letters Patent No. 24,538, dated June 28, 1859.

To all whom it may concern:

Be it known that I, JAMES A. CAMPBELL, of the city of New Orleans, in the parish of Orleans, in the State of Louisiana, have invented a new and Improved Card and Job Press; and I hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in the peculiar mode of constructing and operating the inking roller frame, and the distributing, and impression cylinder, of a printing press.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 is a longitudinal elevation of the machine or press, and Fig. 2, is a plan of the same, in which A represents the frame, B the crank by which the machine is turned, C the journals to shaft C', R the working cranks to which the connecting rods D are attached, which cranks and rods give motion to the cylinder L, which cylinder is made fast to the shaft E. The ends of the shaft E are made fast to the slides F. The cog wheel G being made fast to C', while the wheel G' is loose on shaft E. The roller frame H being attached to this wheel by the bolts I, I. Motion being given to the crank B, causes the wheels G and G' to revolve, which carries the rollers I completely around the distributing cylinder L, at the same time the connecting rods D operate on shaft E, causing it to slide back and forth alternately, giving the desired impression of the type, and receding back from the platen far enough to allow the rollers I to pass between it and the form of type. The wheels G and G' being eccentric just half the length of the arms of the cranks R, allowing them to work perfect in gear while the cylinder vibrates back and forth.

In the position that the drawing in Fig. 1 represents the press, it will be seen, that the highest cogs on the wheels G and G' are in an upright position, 1, 1, being the true centers, and 2, the eccentric centers of said wheels. M the type on the cylinder bed; N the platen; P the grooves down which the card is dropped; O the shaft on which is

screwed a piece to stop the card in its descent down the grooves P, while the type makes the impression; Q the arms on shaft O that lifts the stop up when the pin R' strikes it, and allows the card to drop out after being printed. S are the cranks, and T the rods or pitmen that bring the platen up to the type to receive the impression on the sheet placed thereon. W are the pins that are placed in the pitmen T when it is desirable to print a sheet of paper. X are the buttons by which the platen is fastened in an upright position for printing cards, it being necessary in that case to pull out the pins W.

For a paper or job press, exclusively, it will not be necessary for the cylinder to vibrate back and forth, therefore the axle may be made stationary, and fastened in a permanent manner on the frame of the press, and the wheels G and G' have true instead of eccentric centers.

I do not claim using one portion of the cylinder L as a distributing surface for the ink, and the other as a place or bed for the reception of the form of type: but—

I do claim—

1. Fastening this cylinder permanently on its solid axle E, and, also, fastening the ends of this axle securely into the slides F.

2. I also claim in combination with the cylinder L, the revolving of the roller frame H on the solid axle E as its working center, while the axle itself does not revolve, either by eccentric wheels, which are to be used when the cylinder vibrates, or by plain ones when it is stationary.

3. I also claim the eccentric wheels G and G' in combination with the cylinder L for the purposes specified.

4. I also claim the cranks R, and connecting rods D, in combination with the cylinder L, the inking frame H, and the eccentric wheels G and G'.

5. I also claim the combination of the cranks S, the connecting rods T, the slots Y, the pins W, and the buttons X with this press as specified and described.

JAMES A. CAMPBELL.

Witnesses:

S. G. MERRILL,
BERNARD A. DOWNING.