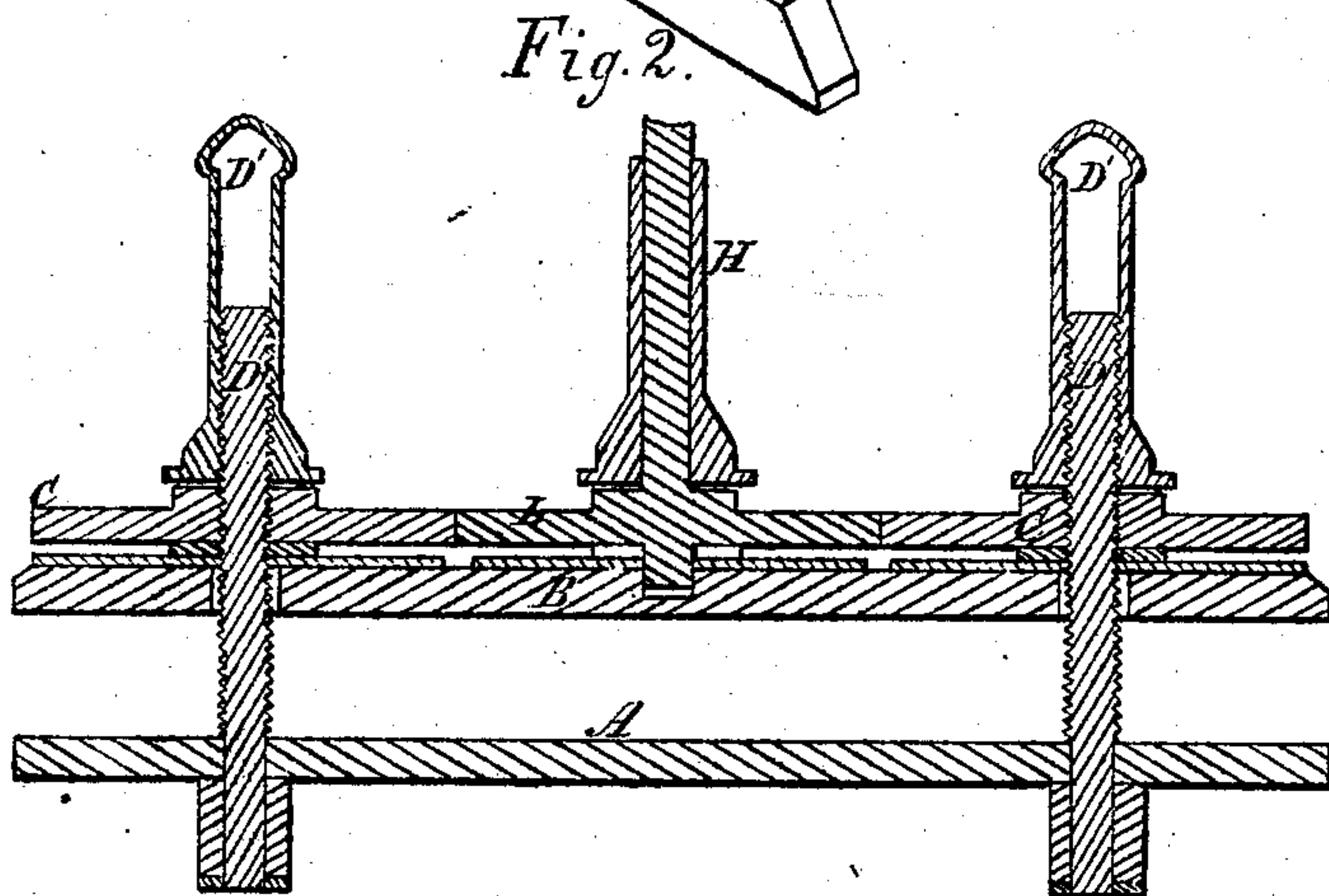
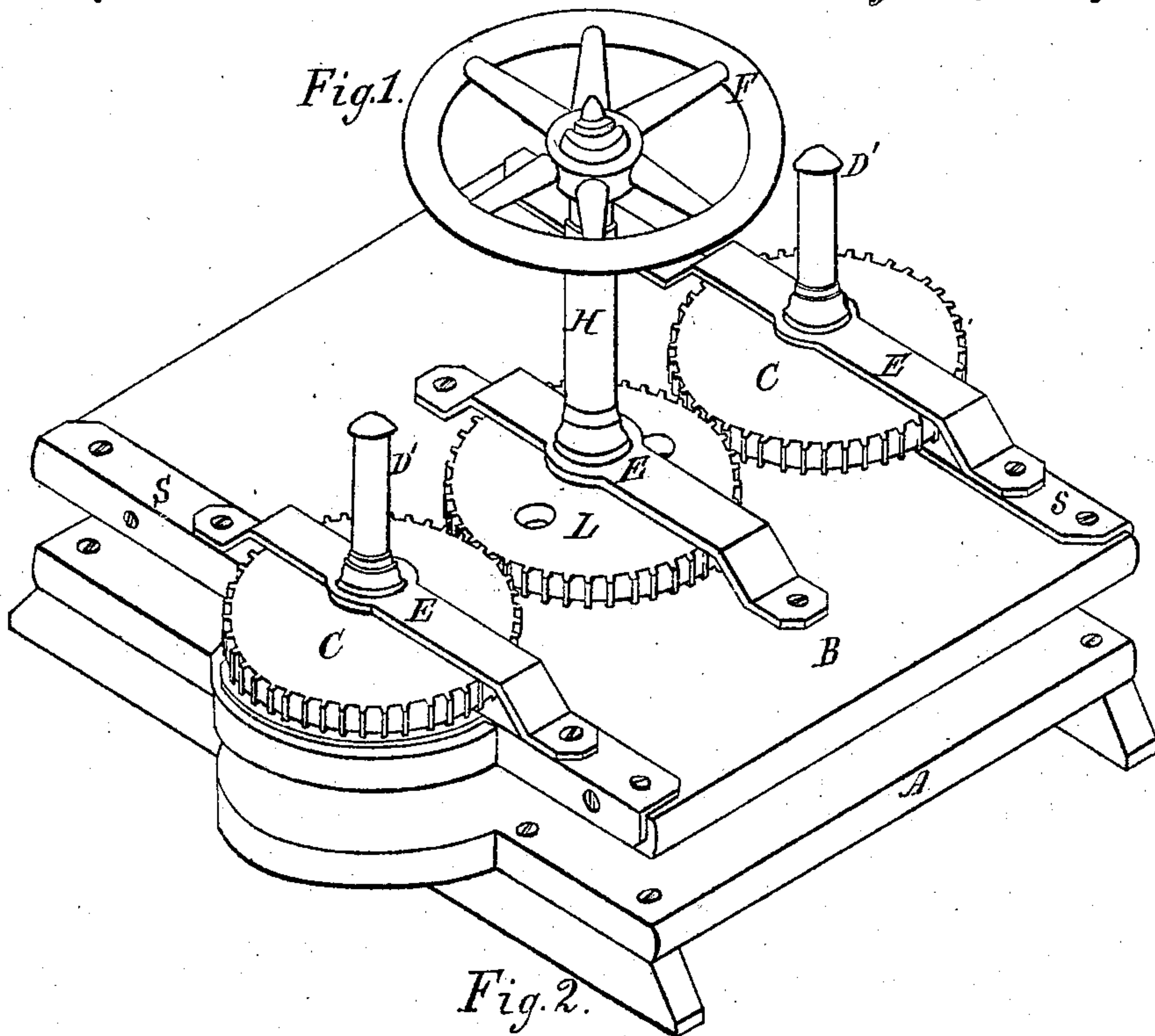


J.M. Keen.
Copying Press.
Nº 93,536. Patented Aug. 10, 1869.



Witnesses
H. N. Miller
 Jas. V. White.

Inventor.
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per
J. H. Alexander
Att'y

United States Patent Office.

JAMES M. KEEP, OF NEW YORK, N. Y.

Letters Patent No. 93,536, dated August 10, 1869.

IMPROVEMENT IN COPYING-PRESSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES M. KEEP, of the city of New York, in the State of New York, have invented a novel and improved Letter-Press, of which the following is a full, clear, and exact description, reference being had to the drawings accompanying these specifications, and forming a part of the same, and in which—

Figure 1 represents a perspective view, and

Figure 2, a longitudinal section of my letter-press.

My invention relates to improvements in three-wheeled letter-presses; and to this end,

It consists in the employment of lifting-stays secured to the platen, substantially as hereinafter described.

It further consists in the employment of stiffeners attached to each end of the platen, and also in surrounding the screws with metal casings, as and for the purpose hereinafter specified.

It consists of a base, A, platen B, three-toothed wheels C L C, two screw-rods D D, three lifting-stays E E E, and hand-wheel or lever F, all combined and arranged as shown in the drawings, and constructed and operating as follows:

Two of the wheels C C being formed of equal size and with an equal number of teeth, and a third or middle wheel of a size to suit the fancy, the teeth properly fitting the wheels C C. Next, two screw-rods or bolts D D, provided with strong heads, and of proper length and threaded, to which are fitted the two wheels C C, which serve as nuts or female-screws and revolve upon the screw-rods.

The third or middle wheel L is provided with a stem, H, to which is attached the lever F. This wheel is seated in the platen Y, fig. 2, to keep it firmly in its place.

The lifting-straps are simply pieces of metal with holes through the middle of two of them, large enough to admit the screw-rods, and the other to admit the stem, which is attached to the middle wheel. They are perforated to admit of their being screwed down to the platen.

The base and platen being formed of proper size, all the parts are ready and may be put together by boring through the base and platen, so that the screw-rods may be passed up through them, thereby connecting them together.

The two wheels C C are run down upon the rods; the middle wheel L is placed in position between the two screw-wheels; the lifting-stays are brought down over the wheels, extending across them, and are fastened down upon the platen at each end; the hand-wheel or lever being fastened upon the upper end of the stem, the press is complete and ready for use, the operation of which is as follows:

By turning the hand-wheel or lever, motion is communicated to the two screw-wheels, which revolve around the screw-bolts, when, following the thread downward, they force down the platen. By reversing the motion, the platen is returned or carried upward by means of the screw-wheels coming in contact with the lifting-stays, the stay across the middle wheel serving to keep it in its place.

It will be observed that all of the wheels and the lever rise and fall simultaneously with the platen, to which they are attached by means of the stays.

The advantages of my invention over other letter-presses are, cheapness, strength, and convenience.

The press may be constructed partly of wood, thereby making it very light.

The greatest strain is divided between two screws, is direct upon the bolts or rods, and upon opposite sides of the press, thereby bringing down the platen evenly upon the object to be pressed.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. Surrounding the screws D D with casings D' D', as and for the purpose specified.
2. Providing the platen B with lifting-stays E E E, as and for the purpose set forth.

J. M. KEEP.

Witnesses:

GEO. E. JEWETT,
A. TITSWORTH.