J. A. POWLETT.

COPYING-PRESS.

No. 193,346. Patented July 24, 1877.

Fig. 1

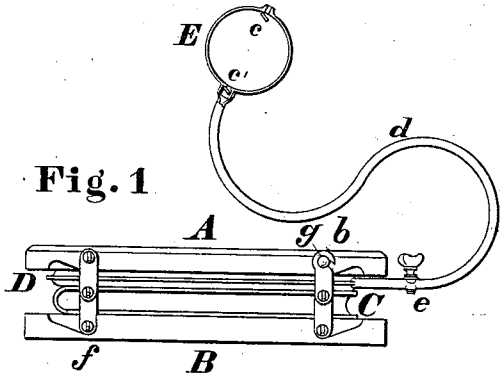


Fig. 2

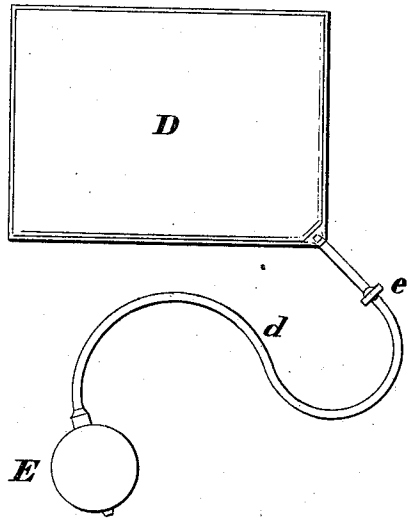


Fig. 3

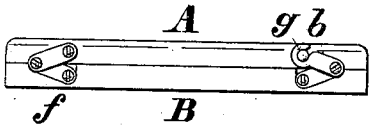


Fig. 4

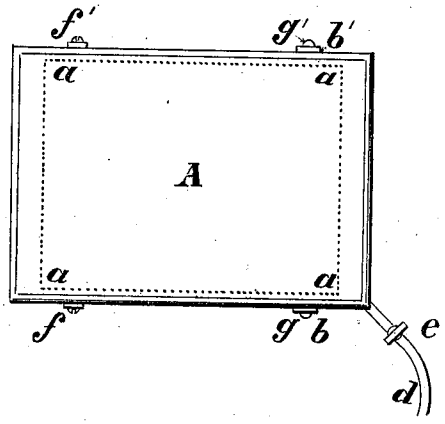
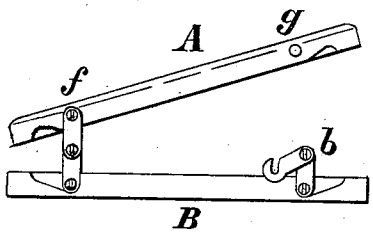


Fig. 5



Witnesses

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JAMES A. POWLETT, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO JESSE P. HOPKINS, OF SAME PLACE.

IMPROVEMENT IN COPYING-PRESSES.

Specification forming part of Letters Patent No. **193,346**, dated July 24, 1877; application filed April 30, 1877.

To all whom it may concern:

Be it known that I, JAMES A. POWLETT, of the city and county of San Francisco, and State of California, have invented certain Improvements in Copying-Presses, of which the following is a specification:

My invention consists of two rectangular plates of wood or other suitable material, permanently secured together at the sides near two opposite ends by extension-hinges, so as to have a movement similar to that of a book-cover, the sides near the other opposite ends being provided with extension hooks and buttons, respectively, in combination with an inflation-bag provided with an exhaust-cock, and connected by a flexible tube with a compression air-bulb.

Figure 1 represents the plates A B, fully extended; also the copying-book C, the inflation-bag D, and the compression air-bulb E. Fig. 2 is a view of the inflation-bag D and compression air-bulb E. Fig. 3 is a side view of the plates A B, folded. Fig. 4 is a top view of the press, the dotted lines *a a a a* showing the position of the copying-book. Fig. 5 is a side view of the press, showing the upper plate A raised.

When the copying-book C and inflation-bag D are to be placed in the press, the free end of the plate A, Fig. 5, is raised, and when the book and bag are in position it is brought down and secured by the extension-hooks *b b'*, which hook over the buttons *g g'*. The bag D is then inflated, Fig. 1, by successive compressions by the hand of the bulb E, which is provided with valves *c c'* for the admission and retention of air. The flexible tube *d* is the duct through which the air is forced into the inflation-bag. The proper amount of pressure having been applied, the air is exhausted from the bag D by means of the three-way cock *e*.

Extension-hinges similar to *f f'* may be substituted for the hooks *b b'*, in which case the copying-book and inflation-bag would be placed between the plates A B from one end.

I claim as my invention—

The plates A B, secured together with extension-hinges *f f'*, and provided with extension-hooks *b b'* and buttons *g g'*, in combination with an inflation-bag, D, provided with an exhaust-cock, *e*, flexible tube *d*, and compression-bulb E, provided with valves *c c'*, substantially as and for the purpose hereinbefore set forth.

JAMES A. POWLETT.

Witnesses:

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