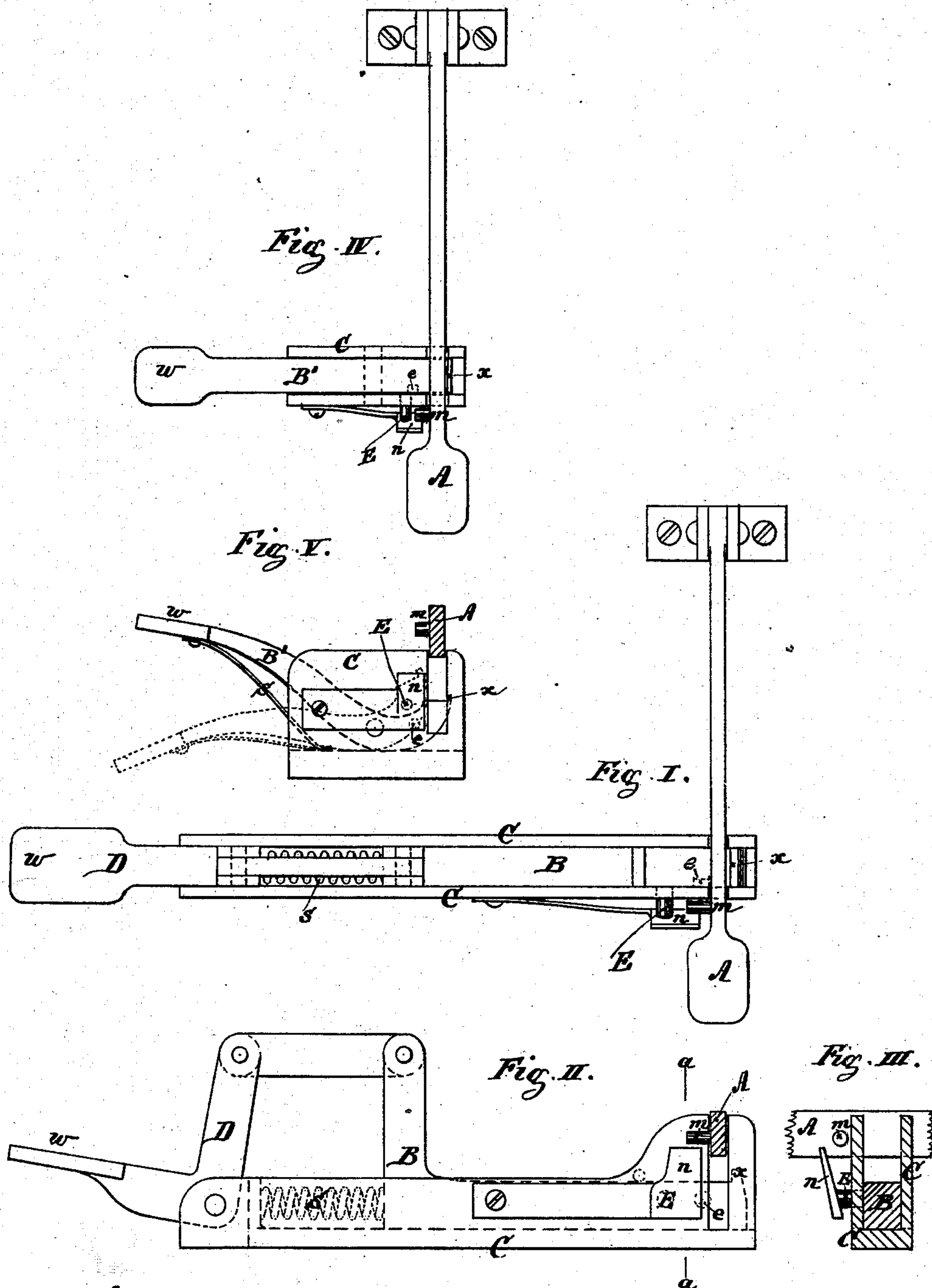


(No Model.)

W. LANG.
Stop for Power Presses.

No. 238,926.

Patented March 15, 1881.



Witnesses:
Araham Lyons,
Henry A Van Blarcom.

Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM LANG, OF WILLIAMSBURG, NEW YORK.

STOP FOR POWER-PRESSES.

SPECIFICATION forming part of Letters Patent No. 238,926, dated March 15, 1881.

Application filed May 3, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LANG, of Williamsburg, in the State of New York, have invented a new and useful Improvement in Safety-Stop for Power or Drop Presses, of which the following is a specification.

The nature of my invention consists in the arrangement of a sliding block or turning lever below the usual treadle through which the power or drop press is put in motion. This lever is first moved away from the treadle when the press is to be put in operation, and is held in that position by a spring-bolt, after which the operator bears down with his foot upon the treadle, in the usual manner. The downward motion of the treadle moves the spring-bolt again clear of the lever, so that as soon as the treadle moves upward the lever is, by means of a suitable spring, moved again below the treadle, thus preventing any accidental moving of the treadle, and consequently any accidental starting of the press.

In the accompanying drawings, Figure I is a top view of a sliding-lever stop arrangement under the treadle. Fig. II is a front view of the same. Fig. III is a cross-section at line *a* of Fig. II. Fig. IV is a top view of a turning-lever stop arrangement under the treadle, and Fig. V is a front view of the same.

Similar letters represent similar parts in all the figures.

A is the usual treadle, upon which the operator bears down with his foot to start the press or work the hammer.

B is a sliding block guided in a suitable frame, C, and acted upon by a spring, *s*, to move and retain said lever under the treadle A. This sliding block B is arranged at right angle to the plane of the motion of the treadle, and is connected to a crank-lever, D, for the purpose of moving the same away from below the treadle when required.

E is a spring-bolt arranged on the side of the frame C, passing through the frame, and made to enter a corresponding hole, *e*, in block B, so as to retain the same in that position after having been moved clear of the treadle. This spring-bolt E is provided with an inclined surface, *n*, at its outer end, against which a

pin or projection, *m*, fast on the side of the treadle A, is made to act during the downward motion of the treadle, so as to move thereby this spring-bolt E out of the hole in the side of the block B, and thus allow the spring *s* to move said block B under the treadle A again as soon as the same moves upward. At the outer end of the block B a small nose or projection, *x*, is made, to prevent the withdrawing of the lever B to start the press in case, by any accident, a weight sufficiently heavy to press the treadle A downward should rest upon it.

In Figs. IV and V the lever B' is arranged to turn on a center, so as to move its outer end away and clear from the treadle A, to allow said treadle to be moved downward. In every other respect the arrangement is the same as above described. This arrangement brings the end *w* of the lever B' nearer to the end of the treadle, to enable an operator who is obliged to stand at his work to operate this lever and the treadle with one and the same foot, while the arrangement shown in Figs. I and II is more convenient for an operator sitting and having the use of both his feet.

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

1. In combination with the treadle A of a power or drop press, a sliding block or turning lever acted upon by a suitable spring, *s*, to retain the end of said block or lever under the treadle and prevent the moving of the same before the end of said block or lever is withdrawn, and the spring-bolt E and its inclined face *n*, substantially in the manner as described.

2. In combination with a sliding block or turning lever projecting under the treadle operating a power or drop press, the spring-bolt E, provided with an inclined end piece or surface, *n*, in combination with a projection, *m*, attached to the treadle, and arranged to operate in the manner and for the purpose substantially as described.

WILLIAM LANG.

Witnesses:

HENRY E. ROEDER,

HENRY A. VAN BLARCOM.