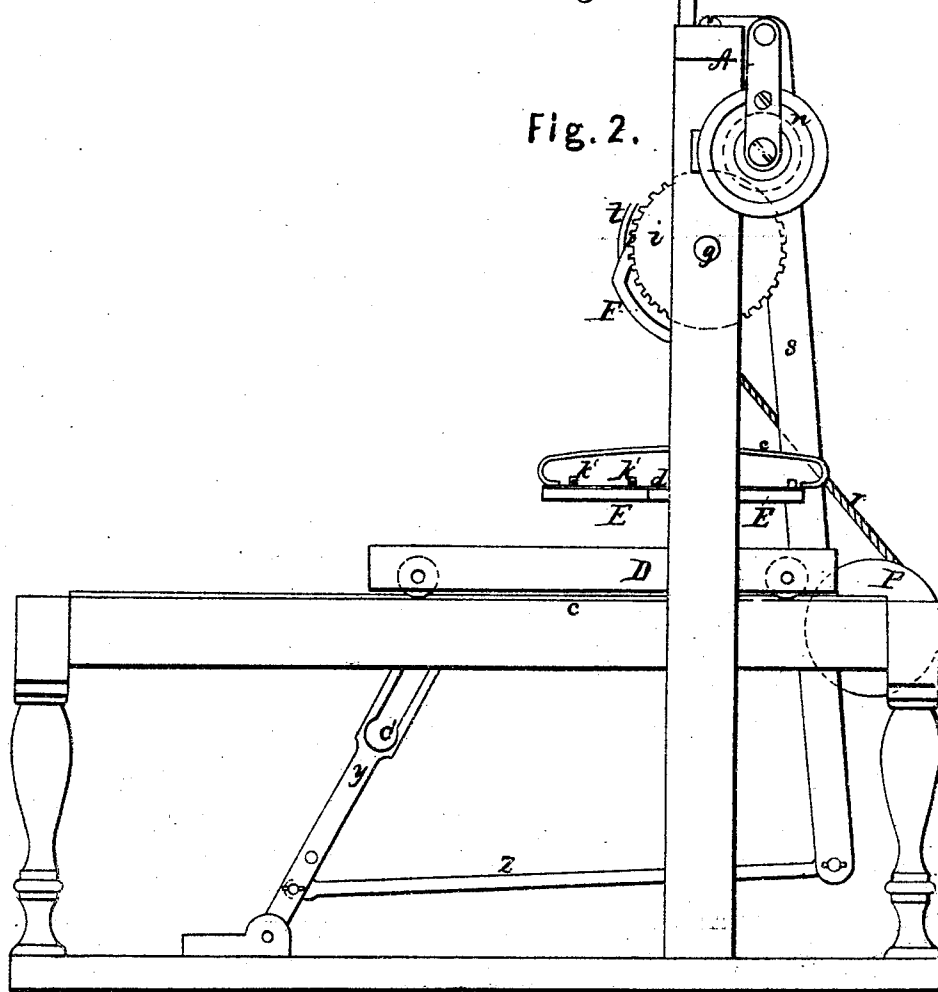
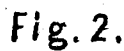


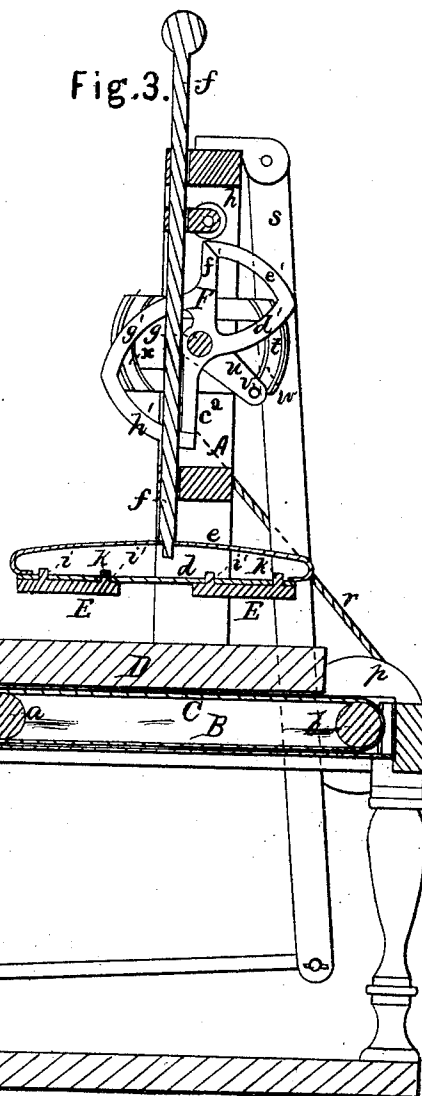
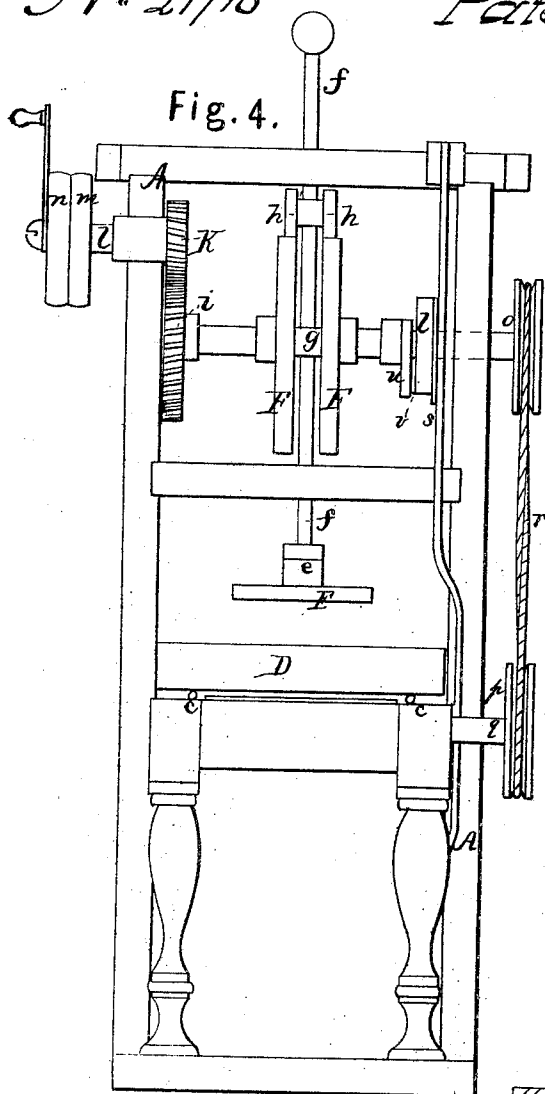
Fig. 1. *Patented Oct. 5, 1858*



A.S. Wright. Sheet 2. 2 Sheets.
Trade Mark Stamp.

Nº 21716

Patented Oct. 5. 1858.



UNITED STATES PATENT OFFICE.

ALGERNON S. WRIGHT, OF LAWRENCE, MASSACHUSETTS.

MACHINE FOR STAMPING TRADE-MARKS ON CLOTH, &c.

Specification of Letters Patent No. 21,716, dated October 5, 1858.

To all whom it may concern:

Be it known that I, ALGERNON S. WRIGHT, of Lawrence, in the county of Essex and State of Massachusetts, have invented a new and useful Machine for Stamping Trade-Marks on Pieces of Cloth; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1, is a top view; Fig. 2, a side elevation; Fig. 3, a longitudinal section, and, Fig. 4, a front end view of the said machine.

In such drawings, A, denotes the frame of the machine. This frame carries an ink or color trough or cistern, B, arranged on it as shown in Fig. 3. Within this cistern is an endless apron C, supported by and working around the horizontal drums, *a, b*, which are arranged in manner as shown in said figure and are applied to the color cistern or the frame, A, so as to be capable of freely revolving within the cistern and causing the lower part of the endless apron to dip into the fluid or color which may be contained in such cistern when the machine is in operation. Besides the ink trough, the frame, A, supports a movable bed or carriage D, by means of horizontal and parallel ways, *c, c*, and so that the said carriage may be moved both over and away from the inking apron C.

Directly over the inking apron is the stamp or stamps E, E, they being attached to a straight bar *d*, whose two ends are connected respectively to the two ends of a semi-elliptic or curved spring, *e*, fastened at its middle to a lifter rod *f*. This rod should be applied to the frame A, so as to be capable of sliding vertically therein or thereon and between two cans, F, F, which are fixed on a horizontal shaft *g*. The lifter rod *f*, has a friction roller, *h*, to rest on each cam. A gear, *i*, on the shaft, *g*, engages with a pinion, *k*, carried by a driving shaft, *l*, on which is a set of fast and loose pulleys, *m, n*, for putting the shaft in rotation by means of an endless band from a suitable motor. The shaft, *g*, at its other end carries a pulley, *o*, around which and a pulley, *p*, on the shaft, *q*, of the drum, *b*, a crossed band, *r*, runs and imparts motion to the drum in order to move the endless inking apron in its vat or cistern.

From the upper part of the frame A, a

lever, *s*, hangs and carries a grooved cam, *t*, which operates in connection with an arm *u*, projecting from the shaft, *g*, and carrying a friction roller, *v*, to work in the grooves *w, x*, of the cam. The lower end of the lever, *s*, is connected with a vibrating lever, *y*, by a pitman, 2. An arm, *a'*, projecting from the bed or carriage, D, carries a friction roller, *b'*, to enter a slot, *c'*, in the lever *y*.

By the mechanism above described, the bed, during each revolution of the shaft, *g*, will have a reciprocating motion imparted to it by which it will be carried underneath the stamps and made to rest there a while or sufficient time for them to fall upon it or what may be on it and rise off the same. It will also be retracted or moved away from such position and maintained at rest long enough for the stamps to fall upon the inking apron receive ink therefrom and rise upward sufficiently for the bed to pass under them, when it may next be moved forward.

The mechanism for operating the lifter rod of the stamps in its vertical movements is the cams, F, F. They are to be formed so as to lower it gradually upon the inking apron and to allow it to fall suddenly and by the force of gravity upon or toward the carriage D. Besides this, they should be so formed, as to lift the stamps off the carriage as well as off the apron at the proper times. That part of each cam which is marked *c*² performs the operation of gradually lowering the stamps upon the coloring or inking apron. The part marked, *d'*, lifts them off the same. The part marked *e'*, holds them at rest while the table is being moved forward. The part marked *f'*, allows the stamps to fall suddenly toward the table. The part marked, *g'*, raises them off the table. The part marked *h'*, maintaining them at rest while the table is being retracted.

The spring of the lifter rod performs three functions, viz. that of insuring the proper elasticity of blow off, the stamps on the cloth to be printed, that of holding the connecting bar of the stamps, and that of protecting the rod from the injurious effects of concussion which tend to upset the rod or bend it. By means of the connecting bar, stamps of various sizes can readily be attached to the lifter or stamping mecha-

nism, as such bar is furnished with a series of holes *i'*, *i'*, *i'*, for reception of the projections, *k'*, *k'*, from the stamps, pins passed through such projections serving to connect the stamps to the bar.

The principal use of the above described machine is to stamp folded pieces of cloth with trade marks or other devices. Heretofore, it has been the practice to accomplish this by hand stamps only, but by my machine the work is performed not only much quicker, but with more regularity and in a much better manner. The machine is automatic. Although in some respects it is like some printing presses, it as a whole, and particularly in the combination and arrangement of its principal operative parts differs therefrom. It is new in the branch of art to which it appertains.

I claim—

1. The arrangement and combination of the reciprocating carriage or table, the stamping mechanism, the inking apron and its vat or trough as made to operate together

substantially in manner and for the purpose as described.

2. I also claim the combination of the stamp connection bar and the spring as applied to the lifter rod and the stamps as specified.

3. I also claim the peculiar means or combination for operating the stamps, viz, a mechanism for lowering them gradually toward the apron, a mechanism for allowing the stamp to fall by the force of gravity upon or toward the table, mechanism for elevating the stamp off the table as well as off the apron as described, and mechanism for maintaining the stamp at rest during each movement of the bed or carriage, the whole being in one cam as applied to a lifter bar as described.

In testimony whereof, I have hereunto set my signature.

ALGERNON S. WRIGHT.

Witnesses:

NATHANIEL WILSON,
GEO. R. ROWE.