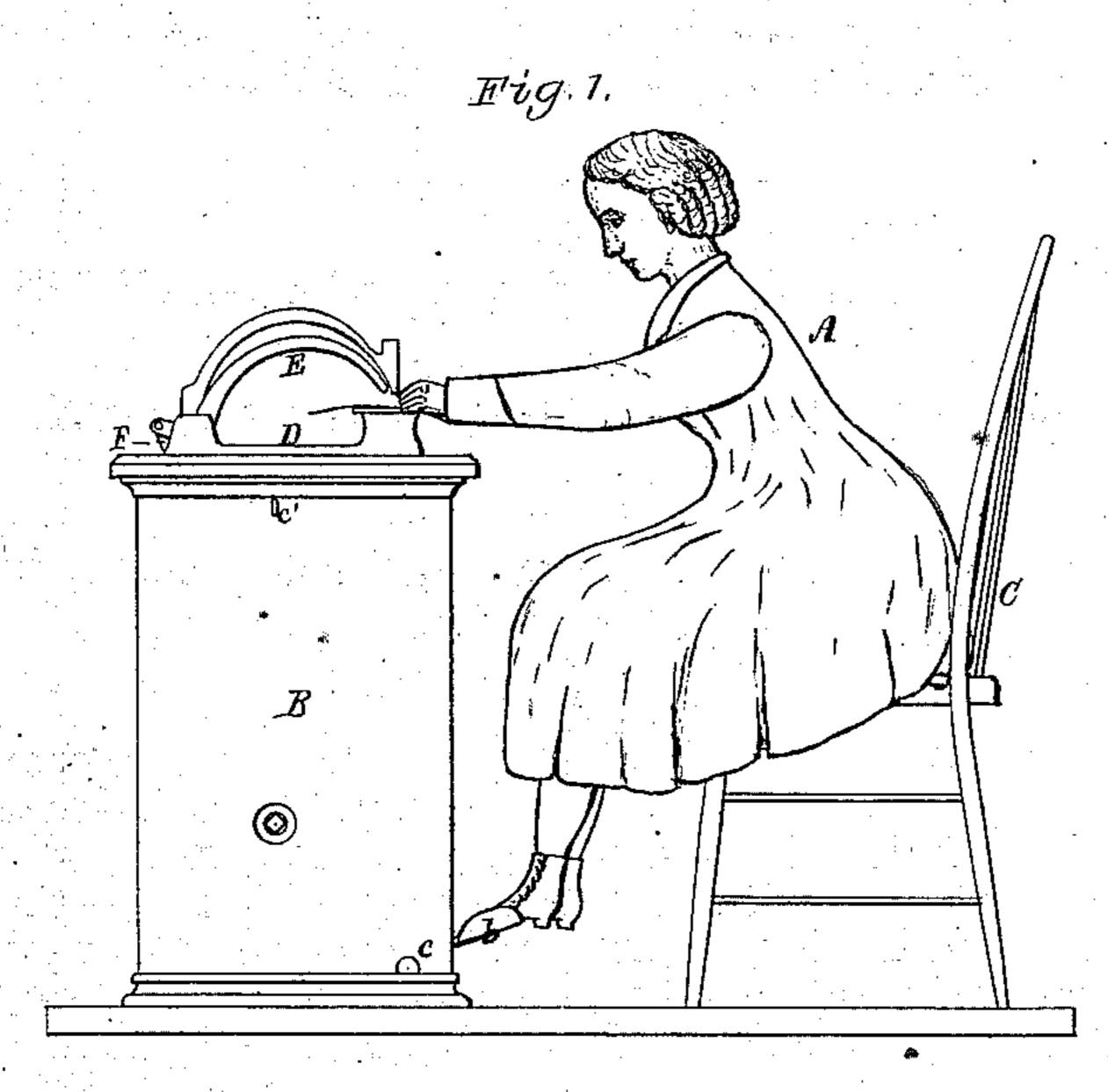
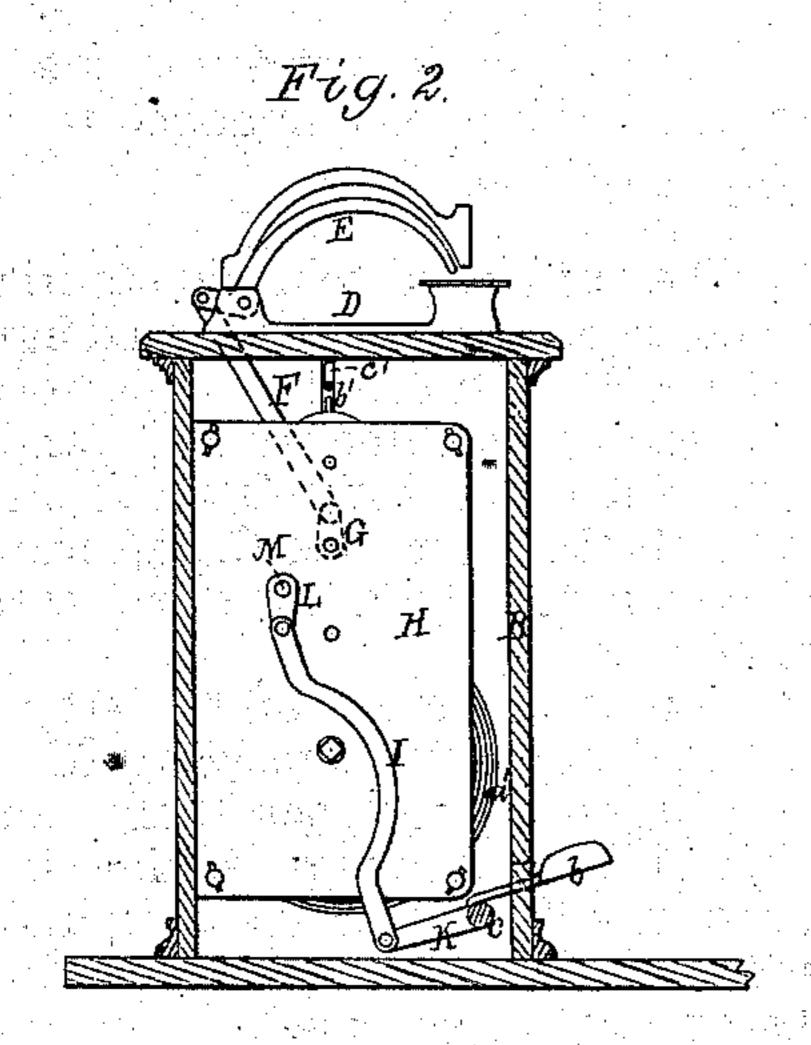
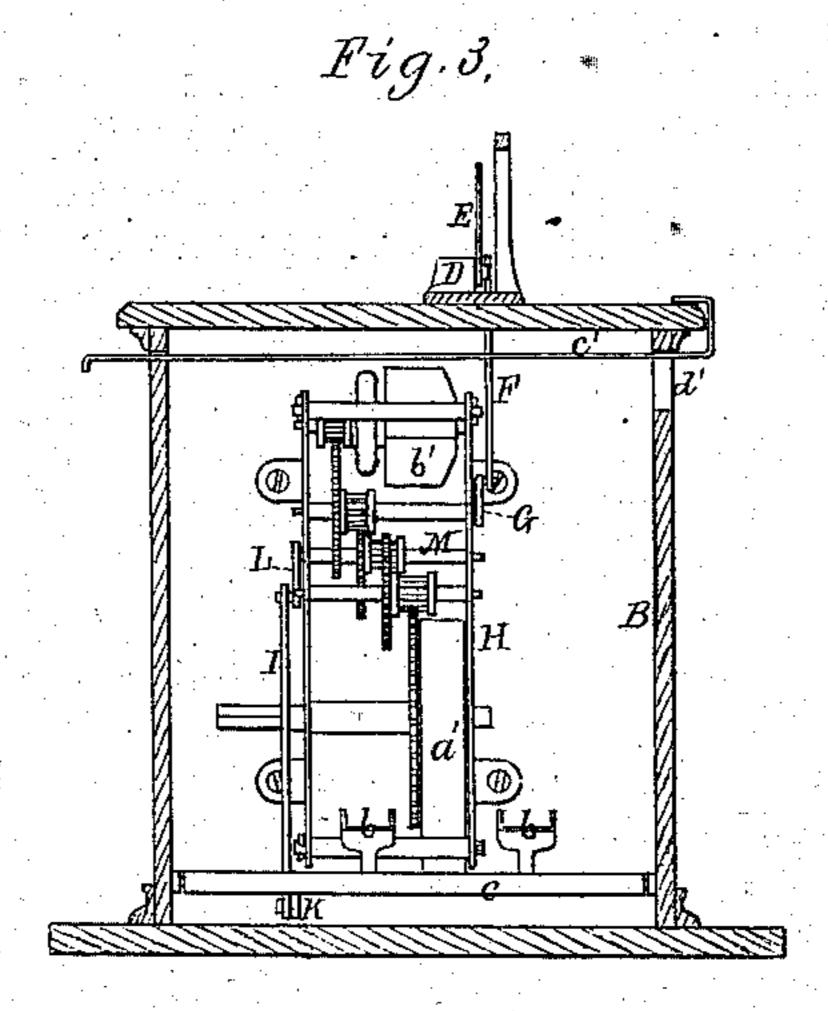
R. J. CLAY. Automatic-Toys.

No. 158,781.

Patented Jan. 19, 1875.







Nitnesses.
S.N. Piper.
LN Höller.

By his attorney.

M. M. Lely

UNITED STATES PATENT OFFICE.

ROBERT J. CLAY, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN AUTOMATIC TOYS.

Specification forming part of Letters Patent No. 158,781, dated January 19, 1875; application filed June 10, 1874.

To all whom it may concern:

Be it known that I, Robert J. Clay, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new Mechanical Toy; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes a side elevation, Fig. 2 a longitudinal section, and Fig. 3 a transverse

section, of it.

This toy is the automatic representation of a person operating a sewing-machine.

The first part of the invention is a figure or doll, A, seated on and pivoted to a seat or a chair, C, the legs of the doll being jointed at the knees and hips in the usual way, and with the feet resting upon two pedals, b b, extended from a horizontal rock-shaft, c, arranged across the corner part of a table or box, B. The invention further consists in a sewing-machine frame, D, provided with a curved lever, E, to represent a needle-arm, such lever, at or near its rear end, being pivoted to a connecting-rod, F, which extends down into the case B, and is pivoted to a crank, G, projecting from the lantern pinion - shaft of a clock mechanism, shown at H. To another crank, L, of another shaft, M, of said mechanism H, a connectingrod, I, is pivoted, and extends down and is pivoted to an arm, K, extended horizontally from the rock-shaft c.

The clock mechanism is to be such that when wound up and set going it will revolve simultaneously both of the cranks G and L, in order to vibrate the pedals and needle-arm, or impart to them reciprocating motions.

The clock-work mechanism H is such as is generally used in mechanical toys, it consisting of a mainspring, a', and a train of gears provided with a resisting fan-wheel, b'. Directly over the fan-wheel b' a rod, c', is extended through the case B, and a slot, d', made on one side thereof, the whole being so as to enable the rod to be moved down across and into the path of revolution of the fan-wheel, for the purpose of arresting the rotary motion of such wheel whenever the same may be necessary, especially just preparatory to winding up the mainspring by a key applied to its arbor.

The toy, when in operation, is a pleasing illustration of a person engaged in operating a sewing-machine.

I claim—

1. The automatic toy, substantially as described, consisting of the seated figure or doll A, the rock-shaft c, and one or more pedals, b, the sewing-machine frame D, and the vibratory needle-arm or lever E, all applied together and to the table or case B, and provided with mechanism for operating them, essentially as explained.

2. The combination of the stop-rod c' and the automatic toy, consisting of the seated doll or figure A, the rock-shaft c, one or more pedals, b b, the sewing-machine frame D, vibratory needle-arm or lever E, and the clock mechanism H, all being arranged and applied substantially as specified.

R. J. CLAY.

Witnesses:

R. H. Eddy, J. R. Snow.