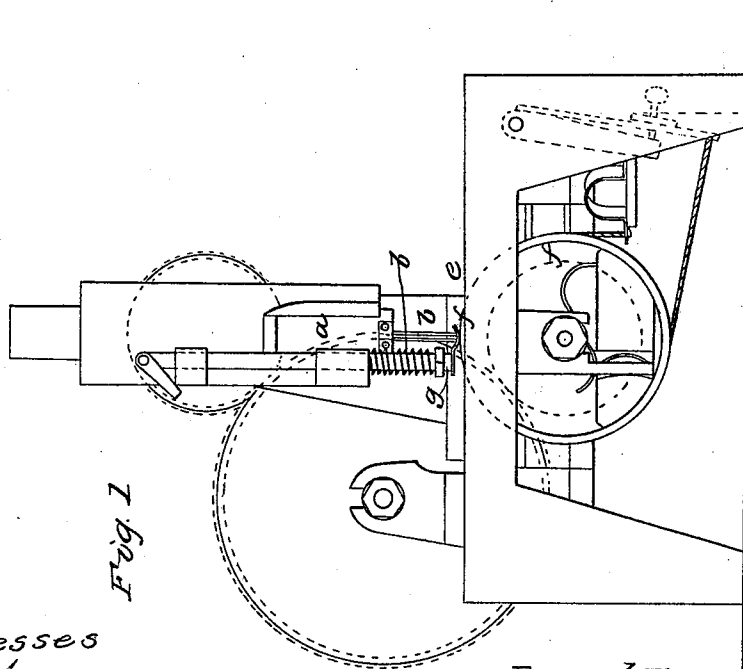
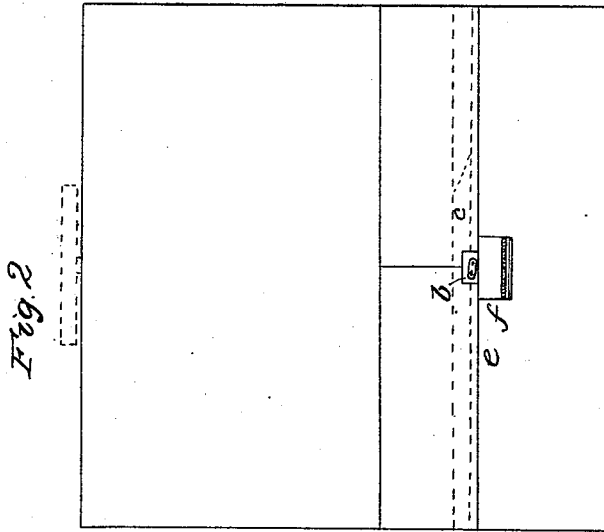


I. M. SINGER.
Sewing Machine.

No. 13,768.

Patented Nov. 6, 1855.



Witnesses
Wm. B. Brown
Andrew De Lay

Inventor
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UNITED STATES PATENT OFFICE.

ISAAC M. SINGER, OF NEW YORK, N. Y.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. **13,768**, dated November 6, 1855.

To all whom it may concern:

Be it known that I, ISAAC M. SINGER, of the city, county, and State of New York, have invented a new and useful Improvement in Sewing-Machines, of which the following is a full, clear, and exact description; reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a front elevation, and Fig. 2 a plan, of the table or bench on which the material to be sewed is placed.

The same letters indicate like parts in all the figures.

My invention relates to an improvement in sewing-machines, by means of which double or compound seams can be sewed by concatenating two needle-threads with each other, or with a third or shuttle thread; and my said invention consists in the employment of two needles placed side by side and working in unison, and each carrying a separate and distinct thread, when this is combined with a shuttle or its equivalent which carries a third thread through the loops formed in the two needle-threads, and which moves in a plane parallel with the plane of the two needles, or, as the equivalent thereof in this combination, any of the known instruments for concatenating another thread with the two needle-threads or concatenating the two needle-threads with each other to form the compound seam.

On the needle-carrier *a*, operated in the usual manner, there are two eye-pointed needles, *b b*, placed side by side, and each carrying its appropriate thread in manner similar to single-thread machines.

The shuttle *c*, constructed and operated in

the usual manner, moves in the usual shuttle-race in a line parallel with the plane passing through the two needles, so that when the two needles perforate the cloth and carry their appropriate threads below the cloth, and there form two loops, the shuttle, instead of passing through the loop of only one needle-thread, passes in succession through the loops of both needle-threads, and therefore when the two needles are withdrawn two stitches are formed, each with a needle-thread and the shuttle-thread, while at the same time the two stitches are connected by the shuttle-thread, which extends from the one stitch to the other.

The needle-bar *a*, which carries the two needles, and the shuttle *c* are operated in the usual or any other appropriate manner, and the cloth or other substance to be sewed is placed on the table *e* and pressed upon the periphery of the feeding-wheel *f* by a spring-pressure pad, *g*, in the usual manner, the feeding-wheel being operated to space the stitches in any appropriate way.

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

The employment of two eye-pointed needles, each carrying its appropriate thread, and the two working in unison, substantially as specified, in combination with a shuttle, or equivalent therefor, to effect the concatenation of the two sets of stitches, substantially as specified, and for the purpose set forth.

ISAAC M. SINGER.

Witnesses:

WM. H. BISHOP,
ANDREW DE LACY.