(No Model.)

T. KUNDTZ.

SEWING MACHINE TABLE.

No. 491,656. Patented Feb. 14, 1893.

Fig. 1.

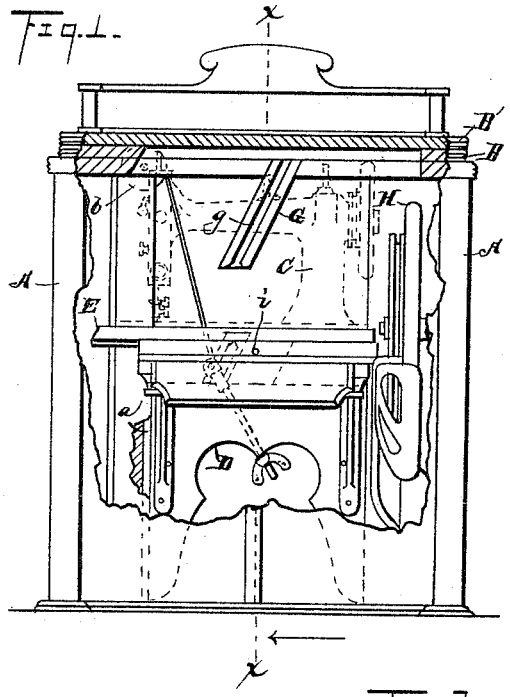


Fig. 2.

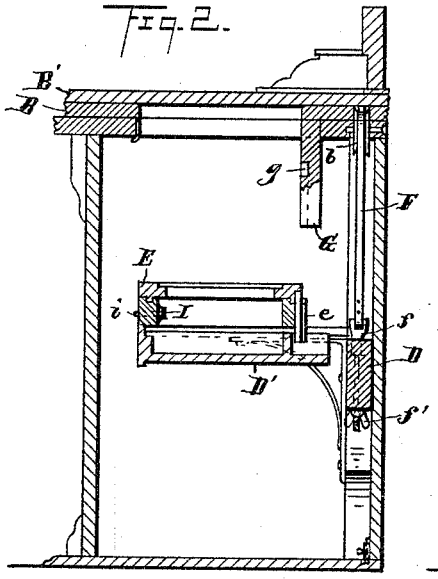


Fig. 3.

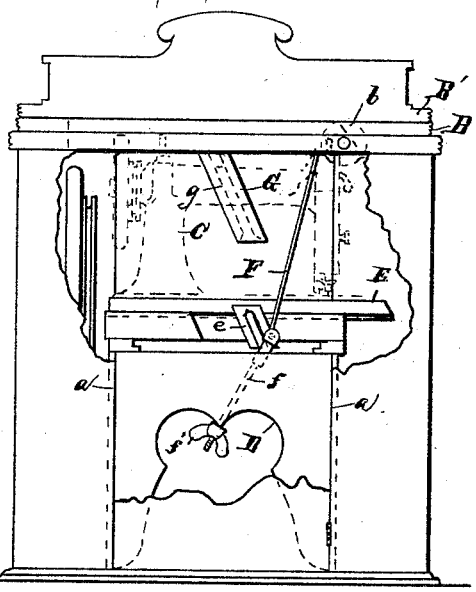
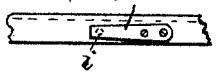


Fig. 4.



WITNESSES.

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THEODOR KUNDTZ, OF CLEVELAND, OHIO.

SEWING-MACHINE TABLE.

SPECIFICATION forming part of Letters Patent No. 491,656, dated February 14, 1893.

Application filed June 16, 1892. Serial No. 436,982. (No model.)

To all whom it may concern:

Be it known that I, THEODOR KUNDTZ, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sewing-Machine Tables; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to sewing machine tables of the cabinet variety and having means for depressing the head of the machine below the line of the table, and having means for automatically shifting the head toward and from the line of the fly-wheel in raising and lowering the head.

In the accompanying drawings, Figure 1 is a front elevation partly in section of mechanism embodying my invention. Fig. 2 is a section. Fig. 3 is a rear elevation, portions being broken away to show the internal construction. Fig. 4 is a side elevation in detail of the locking device.

A A represent the end walls of a sewing machine table of the cabinet variety and B the table top and C represents the machine or so called head. Members A A are grooved vertically on their inner faces as at *a*, and in these grooves operate the ends of carrier D. At the top, the carrier extends forward somewhat like a shelf as at D′, and on this shelf is mounted a sliding frame E. This frame and the shelf being tongued and grooved together or otherwise joined so that the frame may slide endwise on the shelf without losing its lateral alignment. The head C is mounted on, and, rigidly secured to frame E.

B′ is a folding leaf hinged to the table top. To this leaf at or near the rear edge thereof and some little distance from the axial line or hinges, is secured the flexible member F, preferably a thin metal strap. This strap passes over a small roller or wheel *b*, connected with the table and thence member F. connects with the carrier, the attachment being preferable by means of an eye bolt *f* furnished with a thumb nut *f′*, by manipulating which, the length of the strap may be adjusted so that when the leaf is extended the carrier will be drawn up with frame E in position flush with the table top, the latter having a suitable central opening to receive the frame. From the under side and rear edge of the table depends the inclined block G, having a groove *g* in the front face thereof. Connected with the rear edge of frame E is an inclined tongue or member *e* adapted to operate in groove *g* aforesaid. As the carrier is being elevated member *e* enters groove *g* whereby a further upward movement of the carrier causes the frame to be moved endwise in the direction of the fly-wheel H, the relation of parts being such that, when the head is in its elevated or working position, the band wheel thereof is supposed to be in line with the fly-wheel. In depressing the carrier, the motion of frame E is of course reversed so that the frame and head clear the fly-wheel. The head and frame are thus shifted automatically in raising and lowering the carrier, and the latter is operated by folding and unfolding the leaf B′. When the head is depressed, in accomplishing which the leaf B′ is folded back over all, the leaf in that case covers the opening in top B, whereupon the leaf serves as the table top during its folded position.

I is a flat spring secured to the inner front side of frame E, this spring having attached a catch or dog *i*, the dog having preferably a conical free end. With frame E in its elevated position, the conical end of the dog engages a corresponding depression in the front edge of the cabinet and thereby locks the frame, holding the frame and load rigid in its elevated position. Meantime the carrier supports the frame and load, but the office of the dog is more especially to hold the free edge of the frame from vibrating, and this, it effectually does. When however, the carrier commences to descend, the weight of the frame and head would be sustained by the dog, were it able to do so, but the spring is not stiff enough for such purpose and the dog is forced back, after which the frame is free to descend with the carrier. As therefore, the catching and releasing occurs automatically, the operator is released from all care in the matter, and when the machine is in working position it will be as stable as if it rested on the table top. Were the locking of the frame done by hand, any inadvertence of the operator in the matter, would leave the head in such tremulous or shaking condition as would

interfere with the perfect working of the machine and cause excessive wear at the joints, which difficulty is overcome by the automatic locking aforesaid.

What I claim is:

1. In combination a cabinet sewing machine table, having a vertically reciprocating carrier, a horizontally sliding frame mounted on the carrier, such frame bearing the head, a stationary inclined way or guide, an attachment of the frame adapted to engage such way or guide, for shifting the frame and load horizontally by means of the vertical movements of the carrier, substantially as and for the purpose set forth.

2. In combination a sewing machine table having a carrier, and folding leaf operatively connected with the carrier, for raising and lowering the latter, a frame mounted on and movable endwise of the carrier, a pendent stationary block attached to the table and having an inclined groove, a member of the frame adapted to operate in such inclined groove, the arrangement being substantially as described.

3. In combination a sewing machine table a carrier and folding leaf for operating the carrier, a horizontally moving frame mounted on the carrier, and means, substantially as indicated, for moving the frame horizontally with the vertical movement of the carrier, a spring catch or dog carried by the sliding frame and adapted to engage a recess in the table for locking the free edge of the sliding frame in the elevated position of the latter, substantially as and for the purpose set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 11th day of June, 1892.

THEODOR KUNDTZ.

Witnesses:
A. D. MORTON,
GEO. W. KING.