

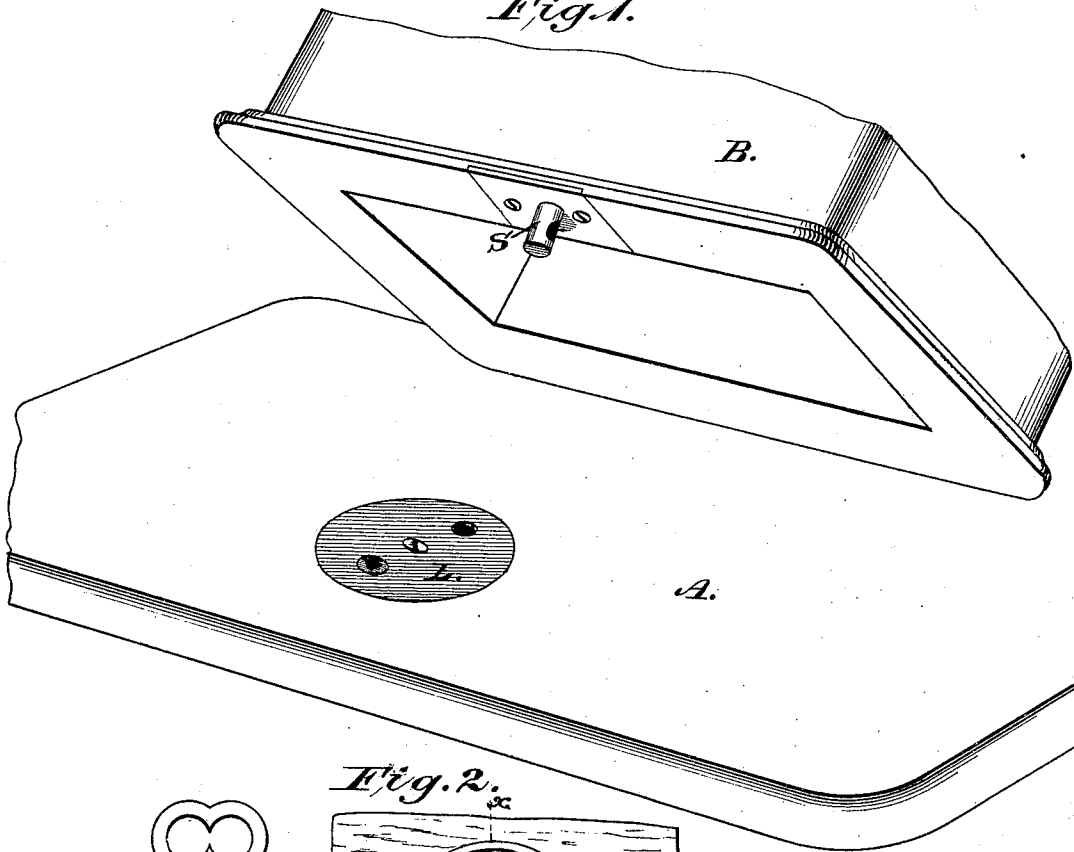
J. B. LOGAN.

Locks for Sewing-Machine Tables, &c.

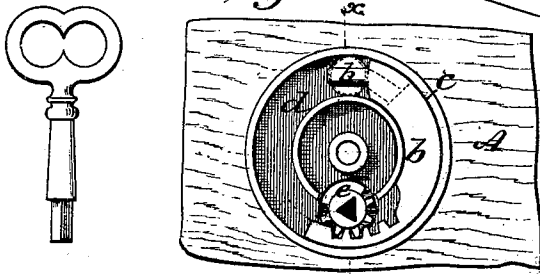
No. 142,708.

Patented September 9, 1873.

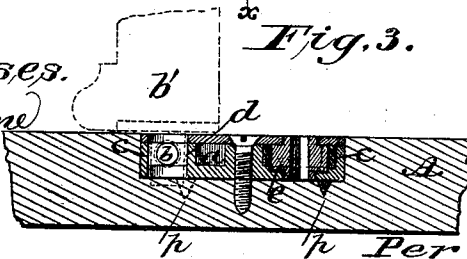
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses.*

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# UNITED STATES PATENT OFFICE.

JOHN B. LOGAN, OF BALTIMORE, MARYLAND.

## IMPROVEMENT IN LOCKS FOR SEWING-MACHINE TABLES, &c.

Specification forming part of Letters Patent No. **142,708**, dated September 9, 1873; application filed August 25, 1873.

*To all whom it may concern:*

Be it known that I, JOHN B. LOGAN, of Baltimore, Maryland, have invented an Improvement in Locks; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a view of part of the top of a sewing-machine table and the machine-cover, showing the position of the lock. Fig. 2 is a top view of the lock with the top plate removed; and Fig. 3 is a sectional view taken through the line *x x*, Fig. 2.

My invention relates to locks which are especially adapted to secure the machine-cover of a sewing-machine to the top of the sewing-machine table, but of course may be used wherever they may be applicable; and my invention consists in placing a segmental bolt within a circular case, said bolt being operated by a rack and pinion, without springs. The lock is secured to the surface of the sewing-machine table, instead of the machine-cover, as at present is the case.

In the drawings, A represents the sewing-machine table, and B the machine-cover. L is the lock, and S the staple. The lock is constructed with a circular bed or bottom, *a*, and a flange, *c*, at its periphery, which forms the outside of the lock-case. At a suitable distance within the outer flange is an inner flange, *d*, between which flanges the bolt *b* is guided. In the center of this circular bed *a* is a standard, through which a screw passes, the only screw needed to secure the lock to the table. Pins *p p* upon the bottom of the bed *a* enter the wood of the table, and prevent the lock,

when in position, from turning. *b* is a segmental bolt, made the thickness of the full space between the bed *a* and the upper plate and the flanges *c* and *d*, except at the ends, which are lessened laterally, the rear end being cut away to form cogs, which engage the pinion *e*, and the forward end rounded to enter the staple. The rack upon the rear end of the bolt *b* engages the pinion *e*, which has bearings in the front plate and the bed-plate *a*. A polygonal key-hole is made in the center of the pinion *e*.

The operation of my invention will be readily understood. By turning a key in the key-hole in the pinion *e* the rack causes the bolt to move either forward or backward; the staple-pin *s* upon the machine-cover enters an orifice in the upper plate of the lock L, secured into the table A, and the forward end of the bolt, being made small enough, enters this orifice into the staple S, and the cover is locked.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A circular sewing-machine-table lock consisting of a segmental bolt, guided between flanges and front and back plates, and operated by a rack and pinion, substantially as described.

The above specification of my said invention signed and witnessed at Baltimore, Md., this 22d day of August, A. D. 1873.

JOHN B. LOGAN.

Witnesses:

ROBT. D. MORRISON,  
ALONZO D. BARTLESON.