

No. 896,309.

PATENTED AUG. 18, 1908.

E. M. MAIN.
THREAD CUTTING TEMPLE.
APPLICATION FILED JULY 13, 1907.

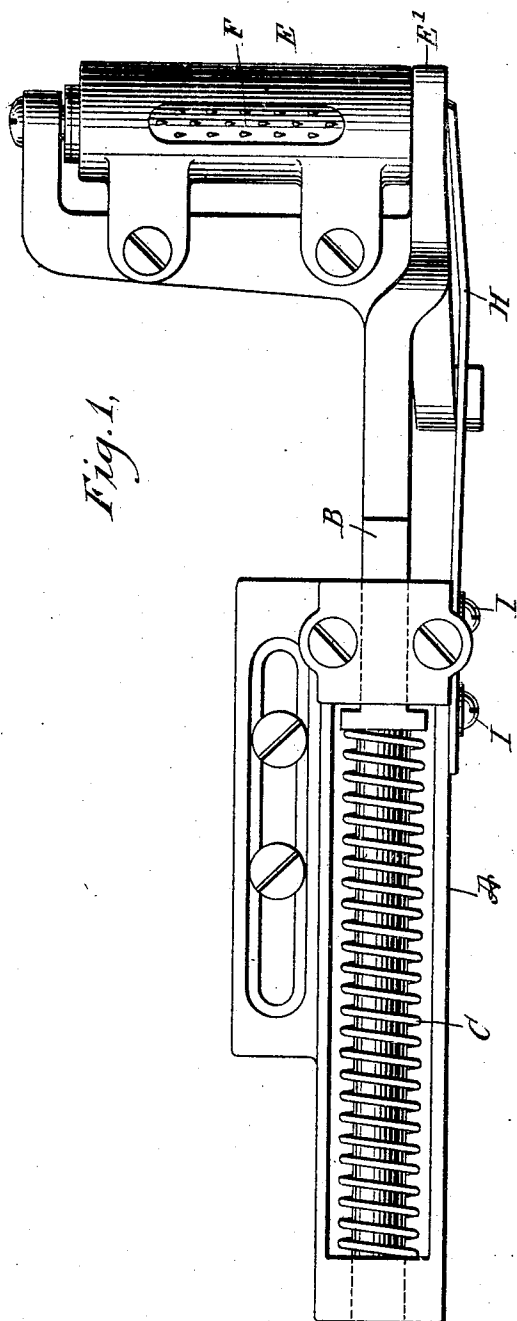


Fig. 1.

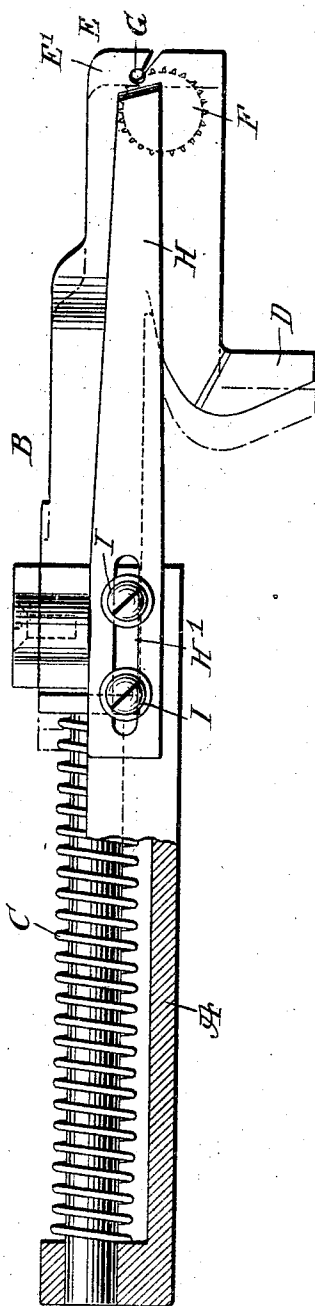


Fig. 2.

WITNESSES

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THREAD-CUTTING TEMPLE.

No. 896,309.

Specification of Letters Patent.

Patented Aug. 18, 1908.

Application filed July 13, 1907. Serial No. 383,592.

To all whom it may concern:

Be it known that I, ELVIN M. MAIN, a citizen of the United States, and a resident of Brunswick, in the county of Cumberland and State of Maine, have invented a new and Improved Thread-Cutting Temple, of which the following is a full, clear, and exact description.

The invention relates to automatic looms in which the filling is supplied to the shuttle in the shuttle box while the loom is in operation.

The object of the invention is to provide a new and improved thread-cutting temple, arranged to insure prompt and unerring cutting of the filling end, to prevent the same from becoming entangled with the subsequent shots of the filling and spoiling the appearance of the fabric.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification in which similar characters of reference indicate corresponding parts in both views.

Figure 1 is a plan view of the improvement, and Fig. 2 is a side elevation of the same, part of the stand being shown in section.

The stand A of the temple is secured in the usual manner to the breast beam of the loom, and on the said stand A is mounted to slide the shank B pressed on by a spring C and provided with the usual heel D adapted to be engaged by the lay to move the shank B against the tension of its spring C, the lay on receding allowing the spring C to move the shank B back to its normal position of rest, shown in the drawings. The shank B is provided with the usual casing E containing the toothed roller F for engagement with the fabric in the usual manner, and on the outer side E' of the casing E is formed an open eye G for the passage of the filling, as plainly indicated in Fig. 2. Onto the face of the outer side E' abuts the cutting edge of a knife blade H, adjustably secured by screws I to the stand A, the said screws I passing through an elongated slot H' formed in the knife blade H. Now when the temple is in the normal position of rest as shown in the

drawings then the cutting edge of the knife blade H extends somewhat in the rear, but in the path of the eye G, and when the lay D actuates the shank B by engaging the heel D, then the eye G is carried past the cutting edge of the fixed knife blade H, and consequently any filling end extending through the eye G is cut off to prevent this filling end from becoming entangled in subsequent shots.

By the arrangement described a very simple means is provided for unerringly and promptly cutting off the filling end.

In case the cutting edge of the knife blade becomes dull, the said knife blade H can be readily removed and its cutting edge sharpened, and then replaced and properly adjusted relative to the eye G, to insure proper cutting of the filling end.

It will be seen by reference to the drawings that the cutting edge of the fixed knife blade is inclined, to cut the filling end with a shearing cut when the shank B is actuated by the lay, as previously explained.

The casing E may be screwed or brazed on the shank B, and the outer side E' is preferably hardened to properly work in conjunction with the cutting edge of the knife blade H, as above described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A thread-cutting temple comprising a stand, a movable shank having a casing and a roller therein, the casing having an eye for the passage of the filling, and a knife blade fixed on the said stand and having its cutting edge operating in conjunction with the said casing at the eye, to cut off the filling end.

2. A thread cutting temple, comprising a stand, a movable shank having a casing and a roller therein, the casing having an eye for the passage of the filling, a knife blade having a longitudinal slot, and having its cutting edge operating in conjunction with the said casing at the eye to cut off the filling end, and set screws traversing the slot and engaging the stand for adjustably securing the knife thereon.

3. A thread cutting temple comprising a stand, a spring-controlled shank movably mounted thereon and carrying a casing having cloth engaging means and a passage for the filling, and a stationary cutting blade fixedly mounted on the stand, and having

its cutting edge cooperating with the casing adjacent the filling passage, movement of the shank against its spring causing the filling-end in the passage to be brought against the
5 edge of and cut by said blade.

4. The combination with a temple having its movable member provided with a passage for the filling, of a stationary knife blade having its cutting edge operating in conjunction

with the said movable member at the said 10 passage to cut off the filling end.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ELVIN MARBLE MAIN.

Witnesses:

L. H. STOVER,
CHARLES I. GIVERN.