

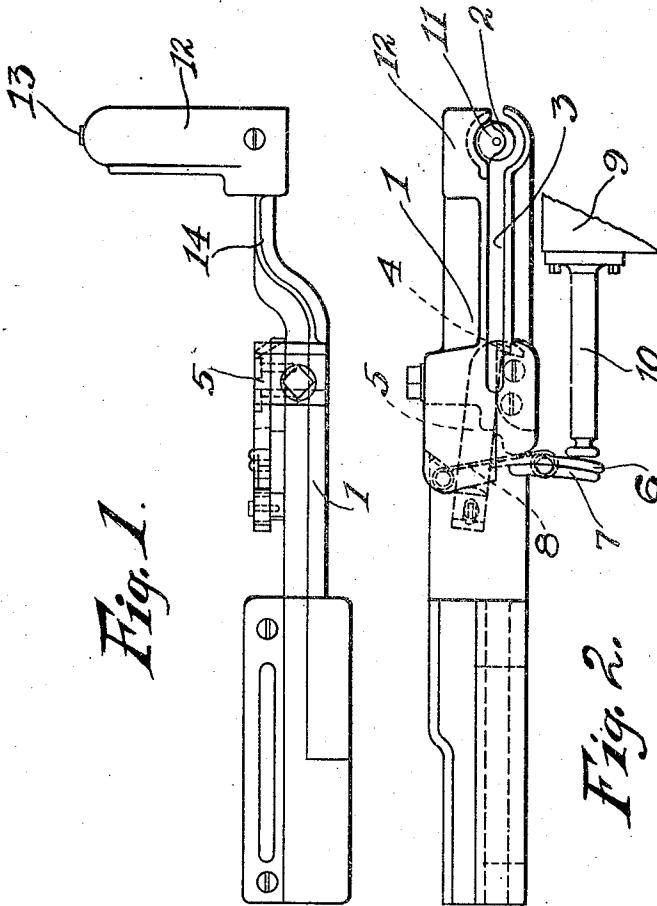
Feb. 23, 1926.

G. CROMPTON, JR

1,574,415

LOOM TEMPLE

Filed April 4, 1923



*Fig. 1.*

*Fig. 2.*

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# UNITED STATES PATENT OFFICE.

GEORGE CROMPTON, JR., OF WORCESTER, MASSACHUSETTS.

## LOOM TEMPLE.

Application filed April 4, 1923. Serial No. 629,890.

*To all whom it may concern:*

Be it known that I, GEORGE CROMPTON, Jr., a citizen of the United States, residing at Worcester, in the county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in a Loom Temple, of which the following, together with the accompanying drawings, is a specification.

My invention relates to temples of the thread cutting type and is adapted particularly for use in connection with pick-and-pick automatic weft replenishing looms and the like, such as disclosed in my copending joint application with Randolph Crompton, filed January 27, 1923, Serial No. 615,323, and my copending joint application with Randolph Crompton filed July 7, 1922, Serial No. 573,357, now Patent No. 1,484,812.

By my invention, I provide a loom having a filling magazine cooperating with a set of shifting shuttle boxes on the same side of the loom as the magazine, with a temple thread cutter adapted to cut the battery thread and the thread from the ejected bobbin and otherwise keep the selvage clean, and yet not cut any of the other threads which may run from shuttles in the boxes to the selvage.

To this end I have placed the cutter in such a position relative to the temple roll that the "battery" thread and the threads to shuttles in the shifting shuttle boxes move toward the cutter without being drawn in by the temple head. The cutter is also located far enough away from the fell of the goods to allow the loom to run for a considerable number of picks subsequent to a transferring operation, so that the battery thread will not be immediately cut. For this reason threads from the various shuttles will be repicked into the cloth before they have a chance to reach the cutter.

In the drawings,

Fig. 1 is a plan view of a temple and thread cutter embodying my invention.

Fig. 2 is a view in side elevation of the parts shown in Fig. 1.

Like reference characters refer to like parts in the different figures.

My improved temple comprises a bifurcated bracket 1 which supports the temple roll 2 and provides a slot 3 extending back to the knife edge 4 of the thread cutter. The movable cutter blade 5, with its down-

wardly extending heel 6, the stationary heel 7 and the retracting spring 8, form no part of my invention and may be of any suitable type, such for instance as is shown in United States Patent No. 1,049,458. A portion of the lay is shown at 9, and carries a bunter 10 which is adapted to engage the heel 6 on the forward beat of the lay, the bunter 10 being considerably longer than the bunter usually carried by the lay for operating a temple thread cutter. The temple roll 2 is rotatably supported at its inner end by a bearing 11 supported by the temple cap 12, and at its outer end by a bearing 13, the cloth, not shown, being adapted to pass under the roller 2.

In operation, the threads from the selvage of the cloth will extend directly to the shuttle boxes through the slot 3, and will not be drawn in under the temple head as occurs with temples of usual construction. The fact that the threads extend through the slot 3 makes it possible to cut the battery thread and the thread from the ejected bobbin later than has been heretofore possible, so that the other threads running to the shuttle boxes will have a chance to be woven into the goods, and therefore will not be severed by the cutter blade 5.

The bracket 1 is offset, as shown in Fig. 1, so that the cutter may be carried close to the selvage behind the offset portion 14 which carries the roll 2.

From the foregoing it is apparent that by my invention I have provided an improved loom temple that is particularly adapted for use in connection with a loom having a filling replenishing mechanism cooperating with a set of shifting shuttle boxes located on the same side of the loom as the magazine. My temple is characterized by the provision of a bracket having a slot extending to the thread cutter from the temple head, through which the filling threads extend directly to the shuttle boxes, and while I have shown my invention as applied to a particular type of temple and thread cutter, it is not so limited, but is susceptible of various modifications within the scope of the appended claim.

I claim:

In apparatus of the class described, the combination with a temple head, means for engaging one side of the cloth carried by said temple head and further means for engaging

the other side of the cloth, of a bifurcated bracket one arm of which carries said temple head and the other arm of which carries said second named means, thus leaving a slot allowing a thread to extend therethrough substantially at right angles to the selvage of the goods after being drawn by the weaving of a piece of goods completely away from both said means for engaging the cloth, and an automatic thread cutter located adjacent said slot substantially removed from both said means for engaging the cloth. 10

GEORGE CROMPTON, JR.