

C. D. WHITING.
LOOM TEMPLE.
APPLICATION FILED SEPT. 9, 1912.

1,055,585.

Patented Mar. 11, 1913

Fig. 1.

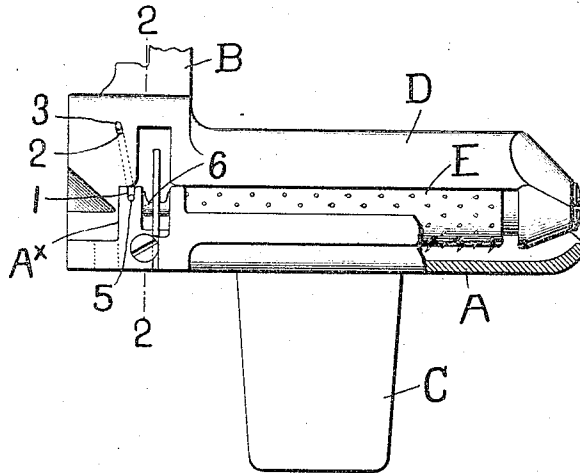


Fig. 2.

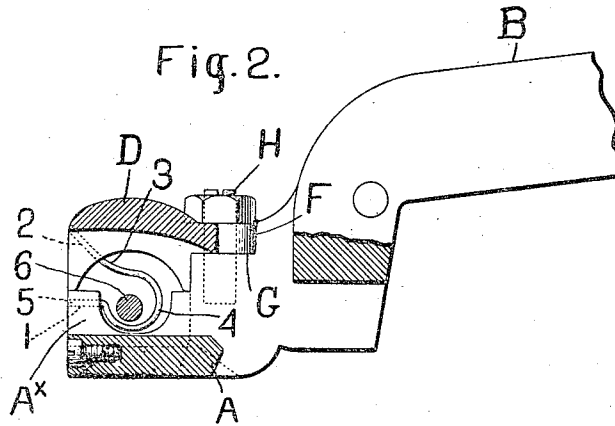
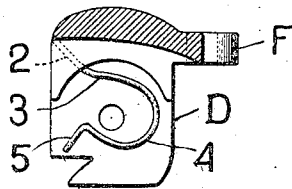


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

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LOOM-TEMPLE.

1,055,585.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES D. WHITING, a citizen of the United States, residing at Nashua, county of Hillsboro, State of New Hampshire, have invented an Improvement in Loom-Temples, of which the following description, in connection with the accompanying drawing, is a specification, like characters on the drawing representing like parts.

This invention relates to loom temples of the type wherein a rotatable toothed roll is inclosed between the pod and cap constituting the temple head, the roll being journaled on the cap. Such a temple is shown in United States Patent No. 540,032, granted to Stimpson, May 28, 1895, the cap having a lateral ear which seats upon the pod at the outer or closed end of the temple head and is retained in place by a suitable screw-bolt.

When the cap and pod are properly attached the toothed roll is maintained in its operative position with its teeth clear of the bottom of the pod or any part thereof, but if the attaching bolt works loose and is not discovered promptly and tightened, the inner end of the cap will sag down toward the pod, permitting the sharp points of the teeth on the roll to hit portions of the pod. This results in slightly bending or turning the points of the teeth, or in dulling them, so that the marks of the teeth are discernible in the cloth, a fault which is most objectionable in many kinds of cloth, and the presence of these marks materially reduces the value of the fabric.

My present invention has for its object the production of a loom temple of the type referred to with simple and efficient means to prevent injury to the roll teeth should the fastening between the pod and cap work loose and be undetected by the weaver.

The various novel features of the invention will be fully described in the subjoined specification and particularly pointed out in the following claims.

Figure 1 is a view in elevation of a loom temple having one form of my invention embodied therein, the pod being broken out, the temple being shown as it would appear when viewed from the back of the loom; Fig. 2 is a transverse sectional detail taken on the line 2—2, Fig. 1, looking toward the left; Fig. 3 is a transverse section through

the cap alone, on the line 2—2, Fig. 1, the roll being omitted.

Referring to the drawing, the elongated, transversely concaved pod A, having the attached shank B and heel C, the cap D also transversely concaved and supporting at its opposite ends the journals for the usual toothed roll E, Fig. 1, the lateral ear F on the cap, to seat on the recessed part G of the pod at the outer or closed end of the temple head, and the upright screw-bolt H which in practice passes through the said ear and is screwed into the pod, to rigidly attach the cap to the pod, may be and are all of usual or well known construction. When the bolt is properly set up the roll E is held in its operative position, with the points of its teeth properly spaced from any part of the pod. Should this fastening member H work loose the cap tends to sag at its inner end and thereby permits the sharp, fine points of the roll teeth to be injured by striking or otherwise engaging some part of the pod.

In accordance with my present invention, in the embodiment herein illustrated, I form a transverse, open notch or seat 1 in the outer part of the end wall A^x of the pod, and in the adjacent end of the cap I drill a diagonal hole 2, and into this hole I insert preferably with a driving fit the shank 3 of a yielding cap-sustainer, as it may be termed. This cap-sustainer is made of a piece of spring wire, having the straight shank 3, and an open, upright loop or bend 4, the free end or extremity of the spring loop being out-turned at 5.

The open loop 4 loosely surrounds the adjacent journal, as 6, of the toothed roll, and when the pod and cap are assembled the free end 5 of the spring loop enters the seat 1 in the pod, the loop 4 being thereby somewhat flexed or put under tension, as will appear by a comparison of Figs. 2 and 3. This flexure of the resilient sustainer tends to lift the opposite or inner end of the cap, should the bolt H become loose, so that the teeth of the roll cannot engage the pod or any part thereof. As will be seen by an inspection of Fig. 2 the sustainer is located between the upright bolt H and the inner end of the cap.

When the fastening bolt H is properly set up the ear F rests squarely and firmly upon the recessed part G of the pod, as shown in

Fig. 2, and there is no relative movement of the cap and pod, but if the bolt is loosened the weight of the cap and the roll E carried thereby causes the said cap to sag down at its free inner end, as before described. There-
5 resilience of the sustainer is sufficient to overcome such weight of the cap and roll and thereby the cap is upheld if the bolt H becomes loose, and injury to the teeth of the
10 roll is prevented.

It will be observed that the sustainer is out of the way of the toothed roll or its journal 6, it can be readily applied to the temple at a very small cost and with very
15 slight changes, as the drilling of the hole or socket 2 and the formation of the seat 5 are the only changes requisite to adapt the temple for the reception of the cap sustainer.

Changes or modifications in details of construction and arrangement may be made by those skilled in the art without departing
20 from the spirit and scope of my invention as set forth in the annexed claims.

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

1. In a loom temple, a pod, a cap, a toothed roll journaled in the cap, and an upright member adapted to connect rigidly the cap
30 and pod at their outer ends and maintain adjacent portions thereof superposed one upon the other, one of said parts having a socket and the other part a seat, at their attached ends, adjacent said upright member and be-

tween it and the inner end of the cap, com- 35
bined with a loop-like resilient sustainer having a shank fixedly held in the socket and its free end entering the seat, normally to place the sustainer under tension, loosening of the fastening member permitting the
40 sustainer to expand and thereby maintain the cap and pod separated at their unconnected inner ends, to prevent injury to the teeth of the roll.

2. In a loom temple, a pod, a cap over- 45
hanging the pod and having a toothed roll journaled therein, and an upright screw-bolt normally connecting the cap and pod at their outer ends and holding superposed portions thereof in fixed relation, combined with an
50 upright spring-loop located between the screw-bolt and the inner end of the cap and interposed between the cap and pod near their outer ends, said spring-loop being
55 fixedly attached to one and bearing against the other of said parts, and normally held under tension, loosening of the screw-bolt permitting the spring-loop to expand and
60 prevent sagging of the inner end of the cap and roll.

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

CHARLES D. WHITING.

Witnesses:

MARTIN T. MANEY,
CHESTER D. WRIGHT.