This invention aims to provide novel means for holding the shaft of a warp beam, in a loom, for rotation on the loom frame. It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains. With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings:

Figure 1 shows in elevation, a portion of a loom wherein the device forming the subject matter of this application has been embodied; Figure 2 is a side elevation; and Figure 3 is a top plan.

The numeral 1 designates the frame member of a loom, provided with an opening 2 defined by edges 3 and 4, located at an angle to each other, there being a depressed bearing notch 5 in the edge 4. near to the outer edge 6 of the frame member 1. The opening 2 having a reduced extension 7 located at the angle formed by the edges 3 and 4, and there being a projection 8 extended from the edge 3, about parallel to the edge 4, and located at the upper outer portion of the extension 7. Having thus described in considerable detail, the shape of the opening 2 in the edge of the frame member 1, it may be stated that the numeral 9 marks a warp beam having a shaft 10 provided with a reduced end 11 forming a shoulder 12 in the shaft. The shoulder 12 is disposed closely adjacent to the inner surface 14 of the frame member 1.

The reduced end 11 of the shaft 10 is journaled for rotation in the bearing notch 5 of the frame member 1. A keeper 15. The slot 17, of course, provides for a vertical adjustment of the keeper 15. The shank 16 has a laterally extended hook-shaped arm 21 provided with a depending end 22. the lower or inner edge of the arm 21 being concaved as at 23, to cooperate with the bearing notch 5 in holding the reduced end 11 of the shaft 10 for rotation. The upper end of the shank 10 is beveled as at 24 and extended laterally, in an opposite direction to the arm 21, to form a wing 25 that overlaps the outer surface of the frame member 1 at the edge 3, and the shank 16 is thickened at its upper end to form a shoulder 26 to engage the edge 3, the shoulder 26 being disposed at right angles to the inner surface 27 of the wing 25.

Because the slot 17 is provided, the keeper 15 may be raised and lowered to engage the end 22 of the arm 21 with the reduced part 11 of the beam-shaft 10, and, then, the nut and bolt 18—18 may be tightened up, the shoulder 26 engaging the edge 3 of the frame member 1, and the wing 25 overlapping the outer surface of the frame member 1, as shown in Figure 3.

The device shown is a solid one-piece lock which fastens on the beam frame with a single bolt. wear being reduced to a minimum, and the effective life of the device being lengthened accordingly. The device cooperates in an improved way with the let-off gear, due to the fact that the gear end of the beam is held perfectly in mesh with the let-off gear, vibration being substantially eliminated. The article is adjustable, so that it will work in a satisfactory way with either a new beam shaft or an old one.

What is claimed is:

1. In a beam lock for looms, a keeper including a shank 16 having an elongated slot 17 in which is mounted a clamping and securing device, such as a bolt 18 carried by the frame member 1, the nut 19 on the bolt holding a washer 20 against the shank 16 of the keeper 15. The slot 17, of course, provides for a vertical adjustment of the keeper 15.

2. In a beam lock for looms, a keeper comprising a shank having an arm and a wing, the arm and the wing projecting in opposite directions, the arm and the wing being spaced apart longitudinally of the shaft, the shank having a shoulder disposed ap-
proximately at right angles to the inner surface of the wing and aligned with the wing, transversely of the shank, and means for connecting the shank with the frame member of a loom.

3. In a beam lock for looms, a keeper comprising a shank having an elongated slot, the shank being provided with an arm and a wing, projecting in opposite directions, and the shank having a shoulder disposed approximately at right angles to the inner surface of the wing.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

OLIVER N. DAWSON.