No. 849,632. PATENTED APR. 9, 1907.

D. LEMOINE.

LOOM PICKER.

APPLICATION FILED SEPT. 14, 1905.

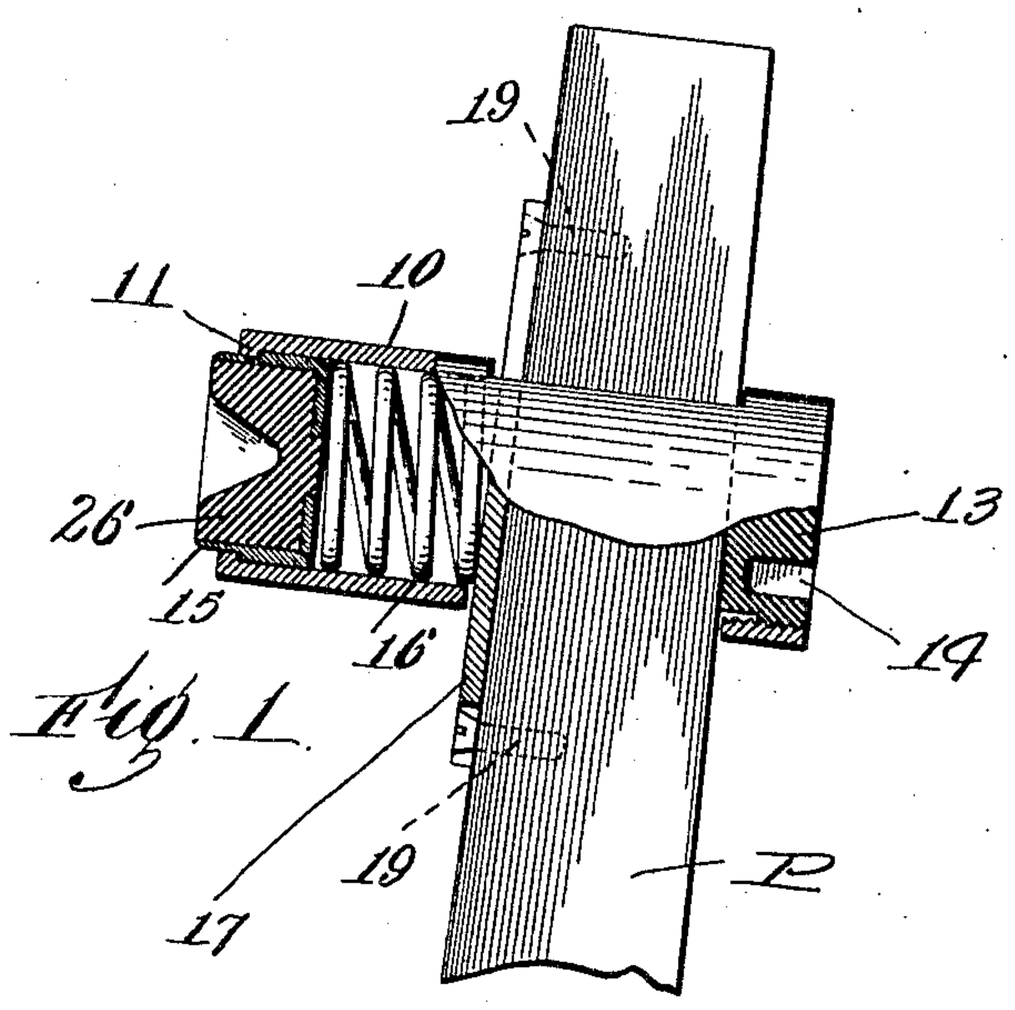


Fig. 1.

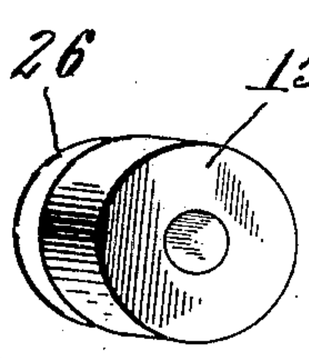
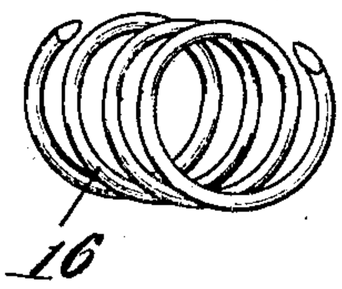
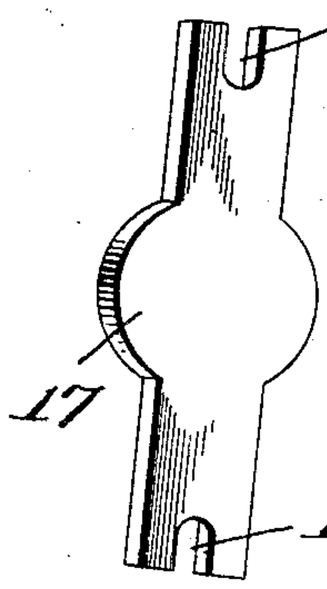
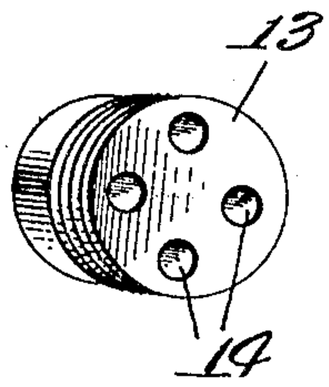


Fig. 2.







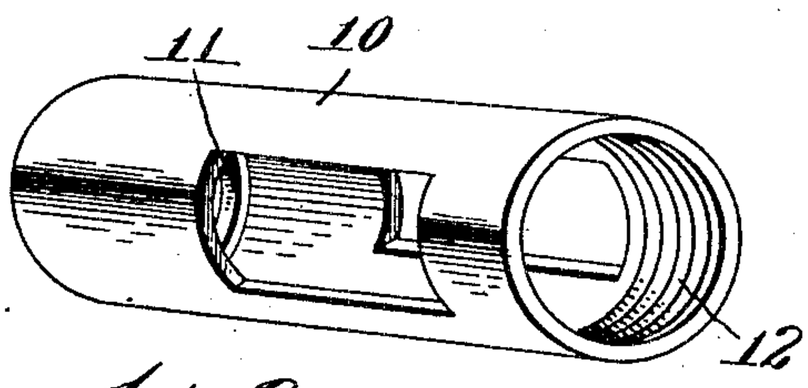
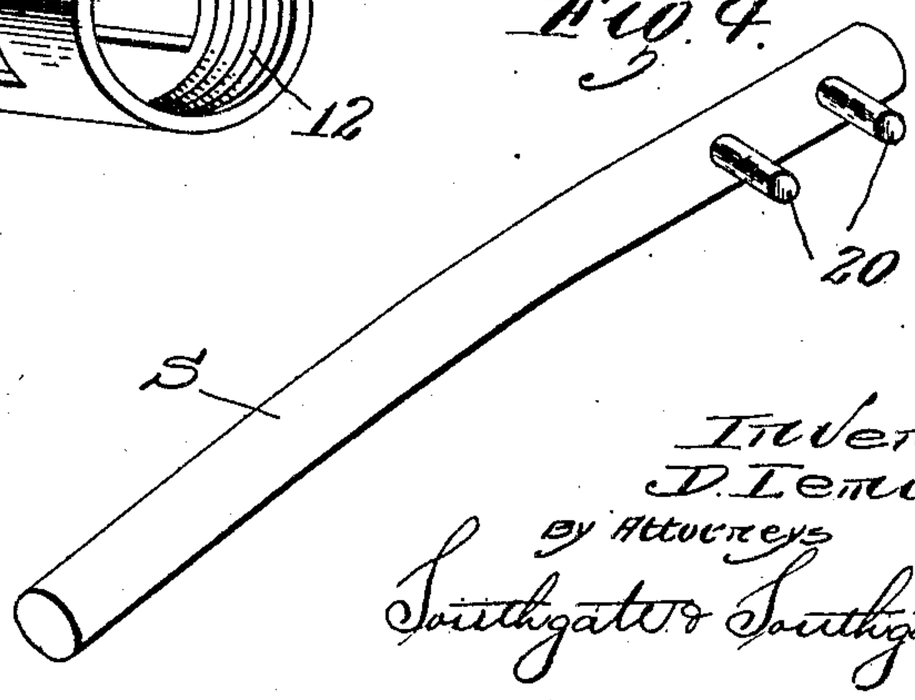


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

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LOOM-PICKER.

No. 849,632. Specification of Letters Patent. Patented April 9, 1907.

Application filed September 14, 1905. Serial No. 278,403.

To all whom it may concern:

Be it known that I, DAVID LEMOINE, a citizen of the United States, residing at Grafton, in the county of Worcester, and State of Massachusetts, have invented a new and useful Loom-Picker, of which the following is a specification.

This invention relates to an attachment for picker-sticks of fly-shuttle looms.

The especial object of this invention is to provide a strong, simple, and inexpensive striking attachment or picker for a picker-stick which may be fastened in place without materially weakening the picker-stick and which will have the proper amount of elasticity to secure the best results in driving or flying the shuttles.

In the accompanying drawings, Figure 1 is a side view, partly broken away, of a picker-stick with my attachment applied thereto. Fig. 2 is a perspective view of the parts inclosed within the casing of the attachment. Fig. 3 is a perspective view of the sheet-metal casing or shell, and Fig. 4 is a perspective view of the spanner-wrench for fastening the back screw of the attachment.

The picker-stick attachment employs a soft-faced spring-pressed plunger for engaging the shuttles, the plunger being housed within a casing which is stamped out of sheet metal and fastened to the face of the picker-stick.

To accomplish the above-mentioned objects, I employ a metal ferrule or casing which has closed slots therein for receiving the picker-stick, so that the casing acts, in effect, as a strap surrounding the picker-stick and holding the same fram splitting. The casing is fastened in place by a rear screw which is completely inclosed within the casing and engages the rear face of the picker-stick. As a further means of preventing any possible up-and-down motion of the attachment I also preferably provide arms extending along the picker-stick which may receive screws, comparatively small screws being sufficient to prevent any possible displacement.

Referring to the accompanying drawings and in detail, P designates one of the ordinary loom picker-sticks. Fitted onto the picker-stick P is a metal casing 10, which, as shown most clearly in Fig. 3, is provided with closed-ended slots, so that the casing can be slipped over the end of the picker-stick.

The casing is provided at one end with a turned-in flange 11 and is threaded at its other end, as at 12, to receive the rear screw 13. The rear screw, which forms, in effect, a wide-faced set-screw having a bearing-surface substantially as large as the interior of the casing, is provided with spanner-holes 14 and is seated completely within the casing.

The parts inclosed within the casing of my picker include a soft cushion-block 26 inclosed within a metallic thimble 15, which is forced forward by a spring 16. The front face of the picker-stick is protected from the spring 16 by a bearing-plate 17, located within the casing and preferably provided with arms which extend out through the slots of the casing and are notched, as at 18, to receive the small retaining-screws 19.

In applying a picker constructed according to my invention to a picker-stick the back screw is first loosened and the attachment is slipped onto the end of the picker-stick. To tighten the back screw 13, I may employ a spanner-wrench which has pins 20 for engaging the holes 14 of the screw. By this way of applying my attachment the picker can be very rigidly fastened upon the stick and will strengthen and reinforce the end of the picker-stick, so that the same will not be liable to split. This construction also has the advantage that the picker cannot be displaced or moved on the picker-stick without the use of the special spanner-wrench S, which spanner-wrench S need only be intrusted to the loom fixers or responsible parties whose business it is to properly adjust the looms in a mill, so that the weavers are not liable to misapply or displace the pickers.

I am aware that changes may be made in the shape and proportions of parts in order to apply my invention to different styles and sizes of looms. I do not wish, therefore, to be limited to the particular construction I have herein shown and described; but

What I do claim, and desire to secure by Letters Patent of the United States, is—

1. In an attachment for picker-sticks for looms, the combination of a casing having slots for receiving a picker-stick, and a back screw threaded into the end of the casing for fastening the same in place, said back screw

having a bearing-surface for engaging the back of the picker-stick and of substantially the size of said casing.

2. In an attachment for picker-sticks for looms, the combination of a casing having closed-ended slots for receiving the end of a picker-stick, and a back screw threaded into the end of the casing for fastening the same in place, said back screw being seated completely within the end of the casing so as not to project therefrom.

3. In an attachment for picker-sticks, the combination of a casing having slots for receiving a picker-stick, and a bearing-plate inclosed within the casing for protecting the front face of the picker-stick, said bearing-plate having extending arms for fastening the casing from up-and-down movement on the picker-stick.

4. In an attachment for picker-sticks, the combination of a casing having closed-ended slots for receiving the end of a picker-stick, a back screw threaded into the end of the casing for fastening the same in place, and a bearing-plate inclosed within the casing for protecting the front face of the picker-stick, said bearing-plate having extending arms for fastening the casing from up-and-down motion on the picker-stick.

5. In an attachment for picker-sticks, the combination of a casing having closed-ended slots for receiving the end of a picker-stick, a back screw threaded into the end of the casing for fastening the same in place, said casing having an inwardly-extending flange at its other end, a plunger consisting of a thimble inclosing a soft-material striking-face, a spring for the plunger, and a bearing-plate for protecting the front face of the stick from the spring, said bearing-plate having extending arms notched to receive small screws to prevent the attachment from moving up and down on the picker-stick.

6. In an attachment for picker-sticks, the combination of a casing adapted to receive the picker-stick, a plunger consisting of a thimble inclosing a soft striking-face, a spring for the plunger, and a bearing-plate for protecting the front face of the stick from the spring.

7. In an attachment for picker-sticks, the combination of a casing having slots for receiving the picker-stick, a plunger in the casing having a soft striking-face, a spring for the plunger, a bearing-plate for protecting the front face of the picker-stick from the spring, having arms, and means for securing said arms to the picker-stick.

8. In an attachment for picker-sticks, the combination of a casing having slots for receiving the picker-stick, a plunger in the casing having a soft striking-face, a spring for the plunger, and a bearing-plate in the plunger for protecting the front face of the picker-stick from the spring.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

DAVID LEMOINE.

Witnesses:
PHILIP W. SOUTHGATE,
MARY T. DEE.