

No. 871,027.

PATENTED NOV. 12, 1907.

G. BRISSON.
HEDDLE FRAME FOR LOOMS.
APPLICATION FILED FEB. 14, 1907.

Fig. 2

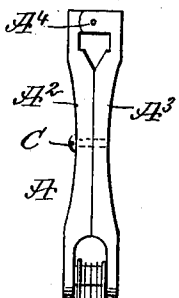
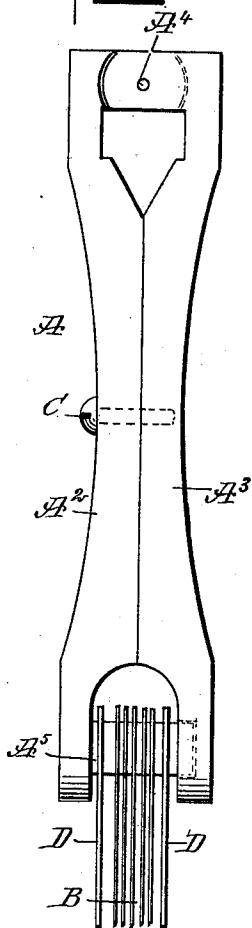


Fig. 3

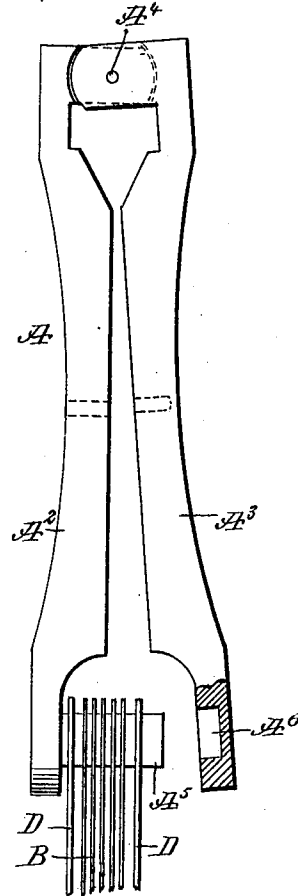


Fig. 5

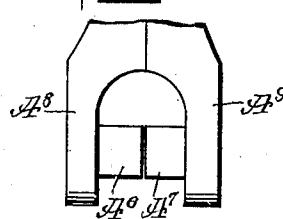


Fig. 1

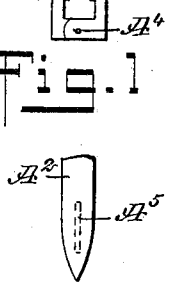
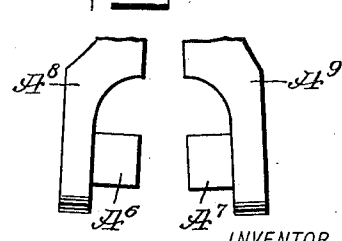


Fig. 6



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Fig. 4

UNITED STATES PATENT OFFICE.

GILBERT BRISSON, OF LEWISTON, MAINE.

HEDDLE-FRAME FOR LOOMS.

No. 871,027.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed February 14, 1907. Serial No. 357,286.

To all whom it may concern:

Be it known that I, GILBERT BRISSON, a citizen of the United States, and a resident of Lewiston, in the county of Androscoggin and State of Maine, have invented an Improvement in Heddle-Frames for Looms, of which the following is a full, clear, and exact description.

The invention relates to weaving, and its object is to provide a new and improved harness, more especially designed for carrying the selvage warp, and arranged to permit convenient and quick repair of a broken heddle without requiring cutting of the selvage and without wasting the other non-injured heddles or other parts of the harness.

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 all the views.

Figure 1 is a face view of the improvement; Fig. 2 is an enlarged face view of one end of the improvement; Fig. 3 is a similar view of the same showing the holder in an open position, part being in section; Fig. 4 is a side elevation of one end of the holder, and Figs. 5 and 6 are face views of one end of a modified form of the improvement.

The top and bottom holders A, A' for supporting the heddles B are alike in construction, and each consists of members or sections A², A³ hinged together at A⁴, and adapted to be securely fastened together in a closed position by a screw C. On the free end of the member A² of each holder A and A' is held a supporting bar A⁵ adapted to fit into a socket A⁶ formed on the free end of the other member A³, so that when the member A² and A³ are in closed position the heddles B are held securely in place on the supporting bar A⁵ without danger of becoming disconnected therefrom. The heddles B are of the usual wire construction and provided at their ends with suitable eyes for engaging the supporting bars A⁵ of the holders A and A' at the time the said holders are in an open position, as indicated in Fig. 3. Now it is evident that when the screw C is removed and the member A³ is swung outward to disconnect the free end of the supporting bar A⁵, then the heddles B can be readily slipped with their eyes onto the supporting bar A⁵.

In order to relieve the heddles B of undue strain the holders A and A' are connected with each other by connecting wires or rods D having eyes at their ends engaging the corresponding supporting bars A⁵ of the holders A and A', so as to confine the heddles B

between them, as will be readily understood by reference to Fig. 1. Now it is evident that when the heddles B and the connecting wires D are slipped in position on a supporting bar A⁵ at the time the member A³ is in open position, then it is only necessary to swing the hinged member A³ into a closed position and to fasten the members A², A³ together by the screw C, so as to quickly hold the heddles as well as the connecting wires D in place on the supporting bar A⁵. Now in case a heddle B is broken or otherwise injured, it can be readily removed from the supporting bar A⁵ of the holders A and A' by opening the same and removing the broken heddle, and replacing the same by a new one.

In the modified form shown in Figs. 5 and 6, the supporting bar is made in two parts A⁶ and A⁷, extending toward each other and secured to the members A⁸ and A⁹ of the holder A or A', made in other respects the same as described above. In the modified form any one of the heddles B can be readily removed when the members A⁸ and A⁹ are in an open position, as shown in Fig. 5, and when the members A⁸, A⁹ are closed then the inner ends of the parts A⁶, A⁷ abut, thus forming a continuous supporting bar. Now by the arrangement described, it is not necessary to cut the selvage warp except the single thread passing through the broken and replaced heddle.

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

1. A harness provided with a heddle holder made in sections hinged together, and provided with a supporting bar for the heddles, connected with one of the sections and movable therewith.

2. A harness provided with a heddle holder made in sections hinged together, one of the sections being provided with a supporting bar adapted to be engaged at its free end by the other section when the sections are in a closed position, and means for locking the hinged sections in a closed position.

3. A harness provided with a heddle holder made in sections hinged together at one end, one of the sections being provided at the free end with a supporting bar for receiving the eyes of the heddles, the other section being provided with a socket for receiving the free end of the said supporting bar.

4. A harness provided with a heddle holder made in sections hinged together at one end, one of the sections being provided at the free end with a supporting bar for receiving the eyes of the heddles, the other section being provided with a socket for receiving the free end of the said supporting bar, and a screw for fastening the sections together.

5. A harness provided with holders made in sections hinged together and having a supporting bar, heddles having eyes at the ends for engaging the said supporting bar, connecting wires having eyes engaging the said supporting bar and having the heddles between them, and means for locking the hinged holder sections in a closed position.

6. A harness provided with a heddle holder made in sections hinged together, one of the sections being provided with a supporting bar adapted to be engaged at its free end by the other section when the sections are in a closed position.

7. A harness provided with a heddle holder made in sections hinged together, the free ends of the sections being spaced apart when the sections are in a close position to retain the eyes of the heddles between the said free ends, and a supporting bar on the said holder for

receiving and supporting the eyes of the heddles and extending across the space between the free ends of the said holder sections.

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

GILBERT BRISSON.

Witnesses:

WILLIAM SABOURIN,
AUGUSTIN MARCOUS.