No. 762,493. PATENTED JUNE 14, 1904.

H. E. RUDDY.

HAMMOCK LOOM.

APPLICATION FILED JULY 6, 1903.

NO MODEL.

Fig. 1.

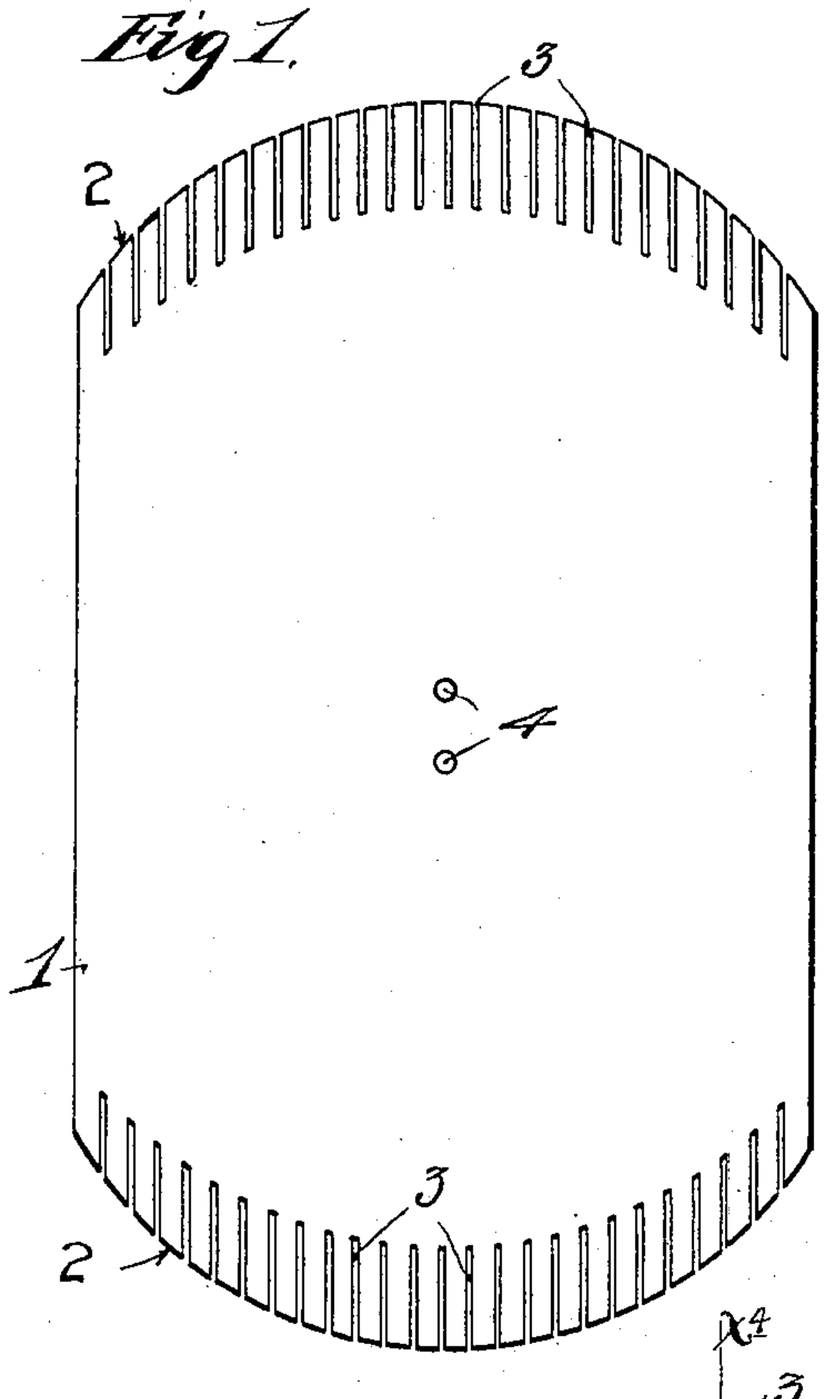


Fig. 2.

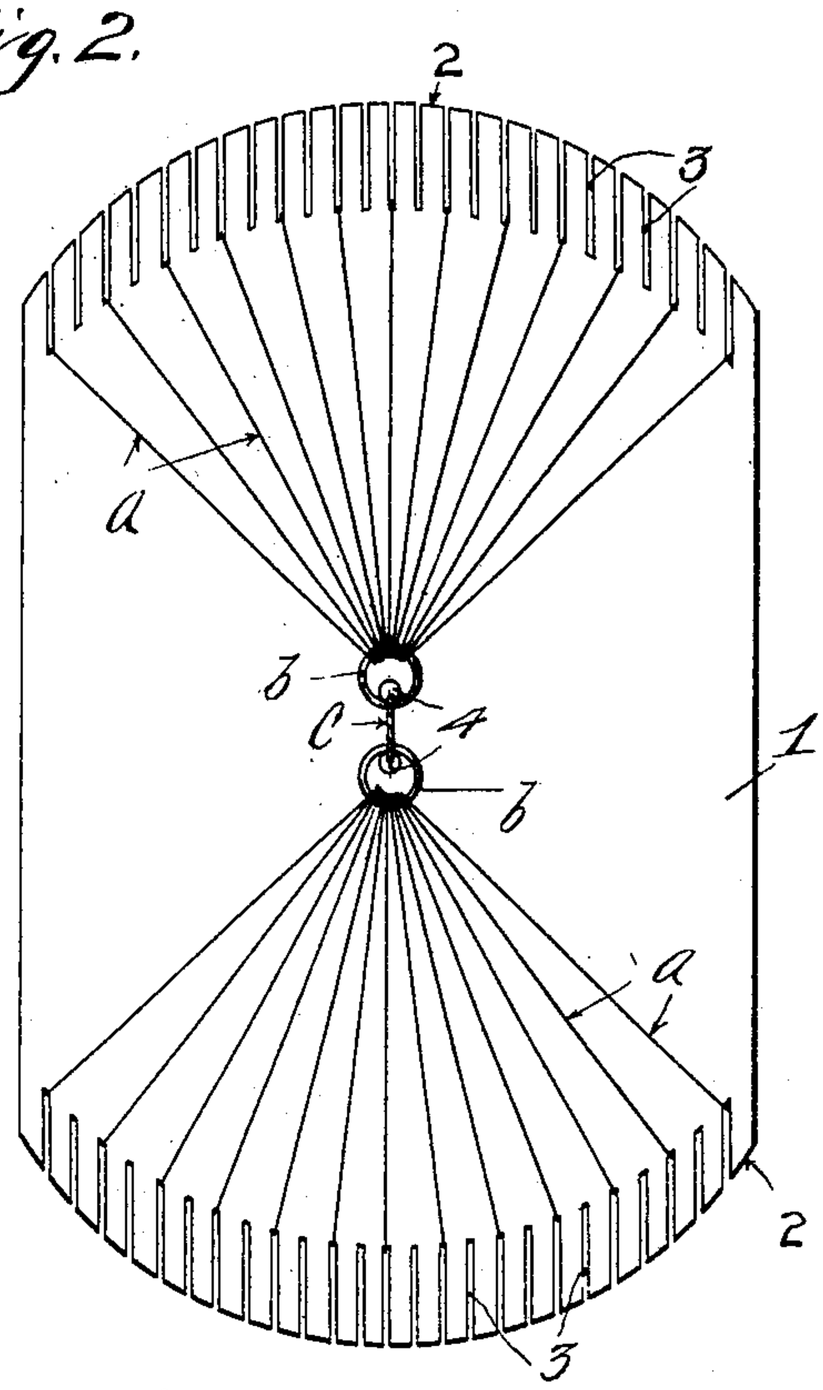


Fig. 3.

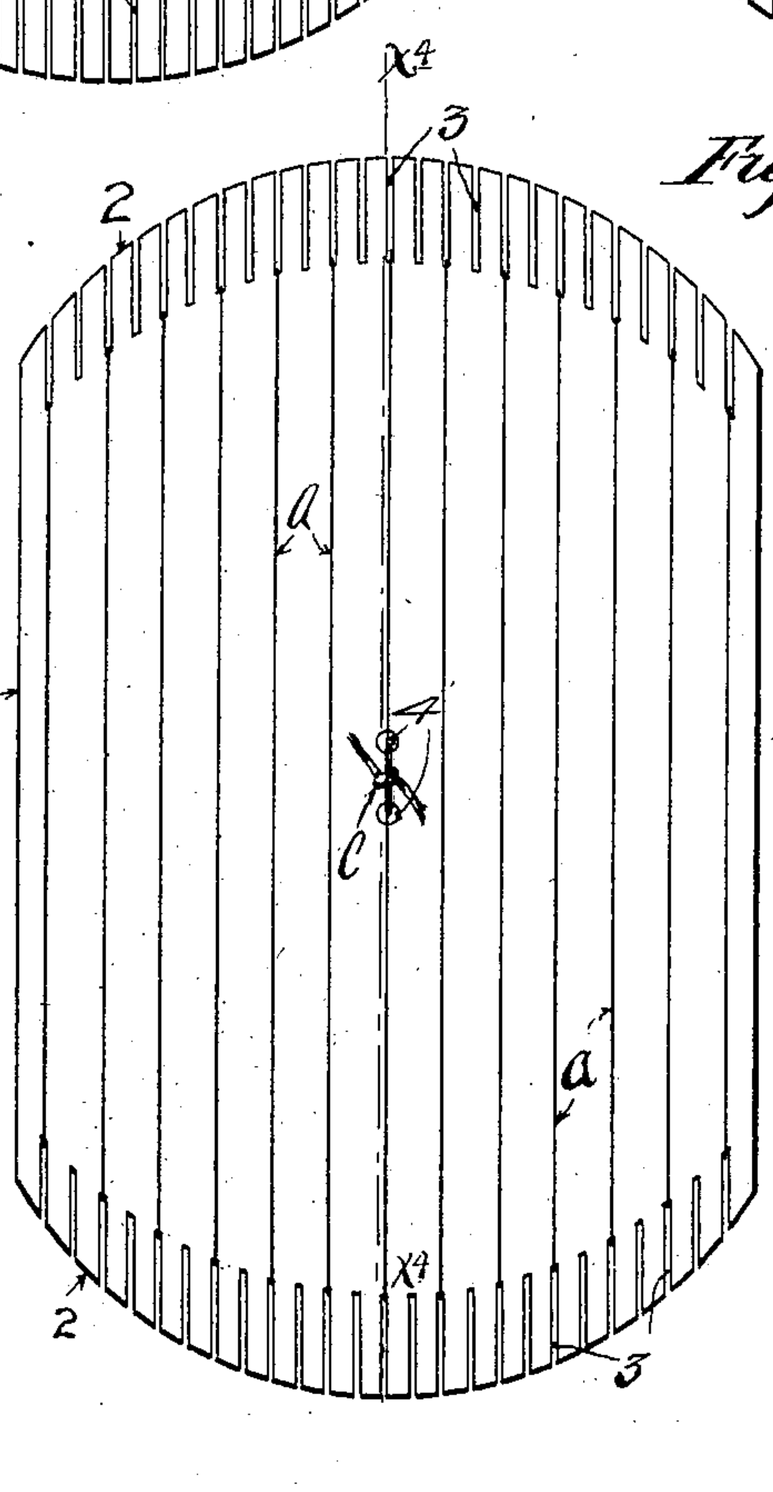
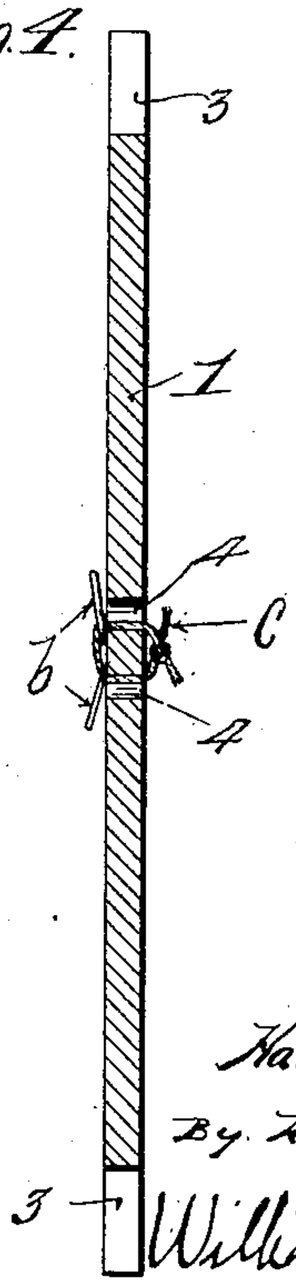


Fig. 4.



Witnesses,
W. D. Edgerton,
Robt. Mabury.

Inventor,
Harriet E. Ruddy.
By her Attorneys,
Williamson Merchant

No. 762,493. Patented June 14, 1904.

UNITED STATES PATENT OFFICE.

HARRIET E. RUDDY, OF ST. PAUL, MINNESOTA, ASSIGNOR TO MARTHA P. TODD AND DANA TODD, OF MINNEAPOLIS, MINNESOTA.

HAMMOCK-LOOM.

SPECIFICATION forming part of Letters Patent No. 762,493, dated June 14, 1904.

Application filed July 6, 1903. Serial No. 164,345. (No model.)

To all whom it may concern:

Be it known that I, HARRIET E. RUDDY, a citizen of the United States, residing at 140 East Tenth street, St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Hammock-Looms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide a simple and efficient hand-loom especially adapted for use in weaving miniature hammocks or similar articles which are to have a concave form in contradistinction to a flat surface; and to the above end the invention consists of the novel devices and combinations of devices hereinafter described, and defined in the claims.

The improved loom in one of its simple forms is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Figure 1 is a plan view of the loom looking at the face thereof. Fig. 2 is a plan view of the loom looking at the back of the same and showing the warp-threads of a hammock held in operative position by the loom and by auxiliary devices. Fig. 3 is a view corresponding to Fig. 1, but showing the warp-threads held by the loom; and Fig. 4 is a section on the line x^4 x^4 of Fig. 3, but with the warp-threads removed.

The body or frame of the loom is afforded by a flat board or plate 1, the opposite ends or edges of which are convexly bowed or curved at 2 and are notched at 3, so as to receive the warp-threads *a* and hold the same properly spaced. The bottoms of the notches 3 terminate on bowed or curved lines, which are approximately concentric with the corresponding bowed outer edges 2 of the frame 1. In fact, the bottoms of the notches constitute the bowed edges proper of the said frame.

The ends of the warp-threads of the completed hammock will usually be attached to rings *b*, which rings in the process of forming the hammock are temporarily secured to the back and at the central portion of the frame 1 by a tied loop of cord *c*, which is passed through perforations 4, formed at the central portion of said frame 1.

The manner of applying the warp to the frame of the loom is clearly illustrated in Figs. 2 and 3, by reference to the latter of which it will be noted that the warp-threads are run parallel to each other and in a plane parallel with the plane in which lie the bowed or curved ends or edges of the loom. At the back of the loom the warp-threads radiate from the rings *b* to the notches 3, as clearly shown in Fig. 2. The woof (not shown) is of course woven through the parallel sections of the warp, which sections lie on the face of the loom-frame 1.

After the hammock has been completed the rings *b* are detached by cutting the loop *c*, and the warp-threads may then be readily removed out of the notches 3. The curve of the bowed edges of the loom will usually be such that the outer members or sections of the warp will be shorter than the intermediate sections, and in all cases the bowed edges should be such that the completed hammock instead of being flat will be formed concave or gathered at its sides.

The loom is of course capable of modification within the scope of the invention herein set forth and claimed. For instance, the bowed edge or edges of the loom instead of being notched might be smooth and the loom-frame be provided with laterally-projecting parts for holding the warp-threads properly spaced. Furthermore, devices for holding the warp-threads spaced apart laterally might be entirely dispensed with, although such construction would not be the full equivalent of the much better construction above described. Again, the frame or body of the loom is capable of modification in form, it being necessary, however, that the same be provided with one or more bowed or curved edges or ends that lies in or parallel to the plane of the warp-threads when said threads are held on the said frame.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

1. A loom comprising a frame capable of holding the warp-threads in a plane in position for weaving, and a bow at one end of the frame, over the curved edge of which bow the warp-threads are passed, for the purpose specified, said curved edge lying in a plane in or parallel to the plane of the warp-threads when held on said frame.

2. A loom comprising a loom-frame capable of holding the warp-threads in a plane in position for weaving, and a bow at each end of the frame, over the curved edges of which bows the warp-threads are passed, for the purpose specified, said curved edges lying in a plane in or parallel to the plane of the warp-threads when held on said frame.

3. A loom comprising a frame capable of holding the warp-threads in a plane in position for weaving, and a notched bow at one end of the frame, over the curved edge of which notched bow the warp-threads are passed for the purposes specified, said curved edge lying in a plane in or parallel to the plane of the warp-threads when held on said frame.

4. A loom comprising a frame capable of holding the warp-threads in a plane in position for weaving, and a notched bow at each end of the frame, over the curved edges of which notched bows the warp-threads are passed, for the purposes specified, said curved edges lying in a plane in or parallel to the plane of the warp-threads when held on said frame, said frame further having, at its central portion, perforations through which a ring-holding device may be passed, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

HARRIET E. RUDDY.

Witnesses:

JAS. F. WILLIAMSON,

F. D. MERCHANT.