April 9, 1946. M. F. JAMES 2,398,144

TEXTILE LOOM SWORD

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Fig. 1.

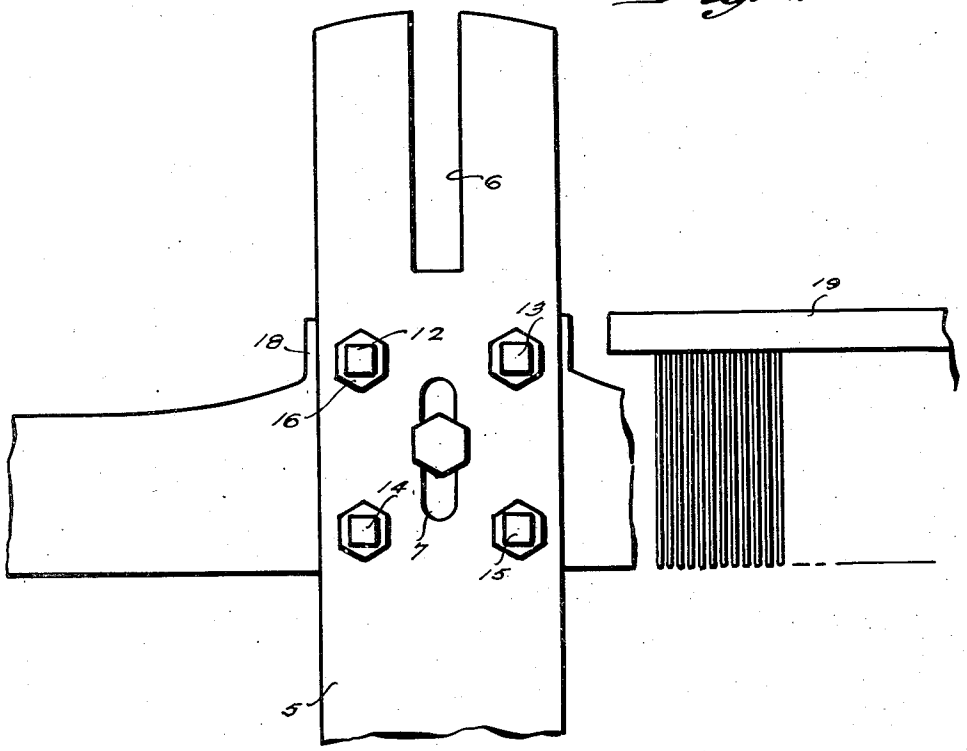
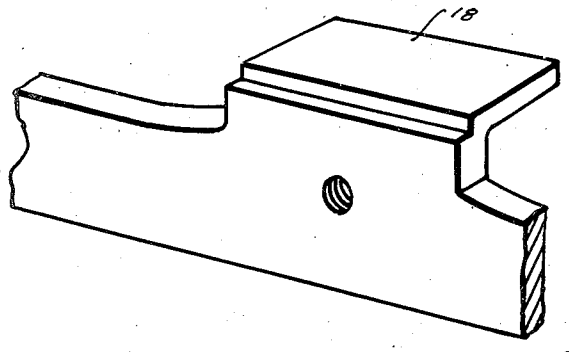


Fig. 5.



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Fig. 2.

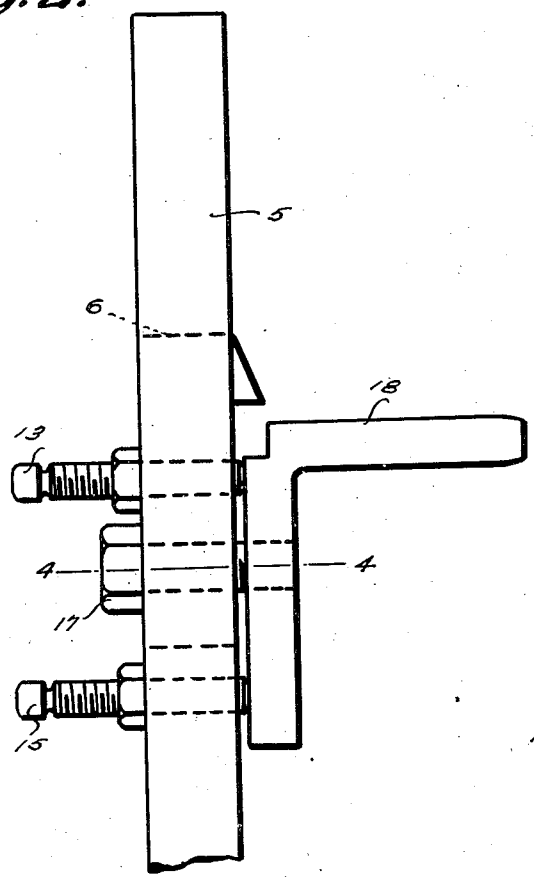


Fig. 3.

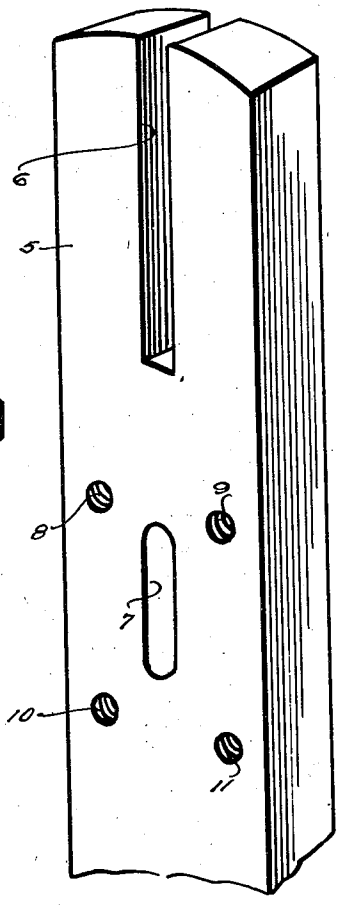
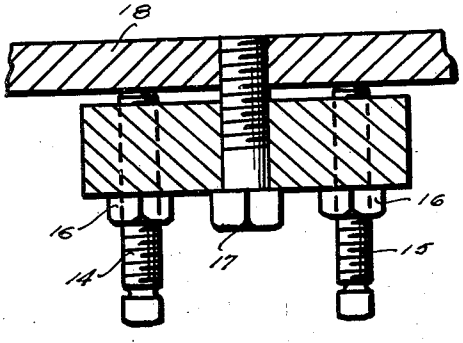


Fig. 4.



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TEXTILE LOOM SWORD

Mark F. James, Atlanta, Ga.

Application July 5, 1944, Serial No. 543,559

1 Claim. (Cl. 139—188)

This invention appertains to new and useful improvements in textile loom swords, the principal object being to provide an improved sword which will not only be stronger in construction but will permit the usual lay to be applied thereto in such a manner that it can be easily and quickly adjusted to position in direct line with any reed, thick or thin.

Other objects and advantages of the invention will become apparent to the reader of the following description.

In the drawings:

Figure 1 is a fragmentary outside elevational view showing the improved sword in conjunction with a reed.

Figure 2 is a fragmentary edge elevational view showing the sword and its lay.

Figure 3 is a fragmentary perspective view of the upper portion of the sword stripped of its adjusting and retaining members.

Figure 4 is a fragmentary sectional view taken substantially on the line 4—4 of Figure 2.

Figure 5 is a fragmentary perspective showing the lay.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 denotes the improved sword. The upper end of the sword has a downwardly extending slot 6 and below this is a short slot 7 adjacent to which are four threaded openings 8, 9, 10 and 11 through which adjusting or set screws 12, 13, 14 and 15 are feedable, each being provided with a jam nut 16.

Disposed through the short slot 7 is a retaining or position screw 17 which is threadedly disposed into the usual lay 18 as is clearly shown in Figure 4 and which provides a seat for the reed 19.

Referring to Figure 1, it can be seen that numeral 19 denotes a conventional reed and it is desirable that the box back be perfectly aligned with the reed 19.

To accomplish this alignment, the proper spacing of the lay 18 with respect to the sword 5 can be accomplished by means of the retaining screw 17. Further adjustment can be accomplished by adjusting the individual set screws 12, 13, 14 and/or 15. After one or more of the set screws has been adjusted, its jam nut 16 is then driven into snug position.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

In a textile loom structure, a sword, and a reed having fixed relative position to each other; the combination with a lay to be aligned with respect to the reed, and means on said sword for making such adjustment, said means consisting of a retaining screw threaded in said lay and engaging in a vertical slot of said sword, a plurality of set screws disposed in threaded holes in the sword and adapted to abut against the adjacent side of the lay to exert pressure on the lay in any position as determined by the retaining screw in the slot of said sword, jam nuts on said set screw for securely locking the lay to the sword.

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