

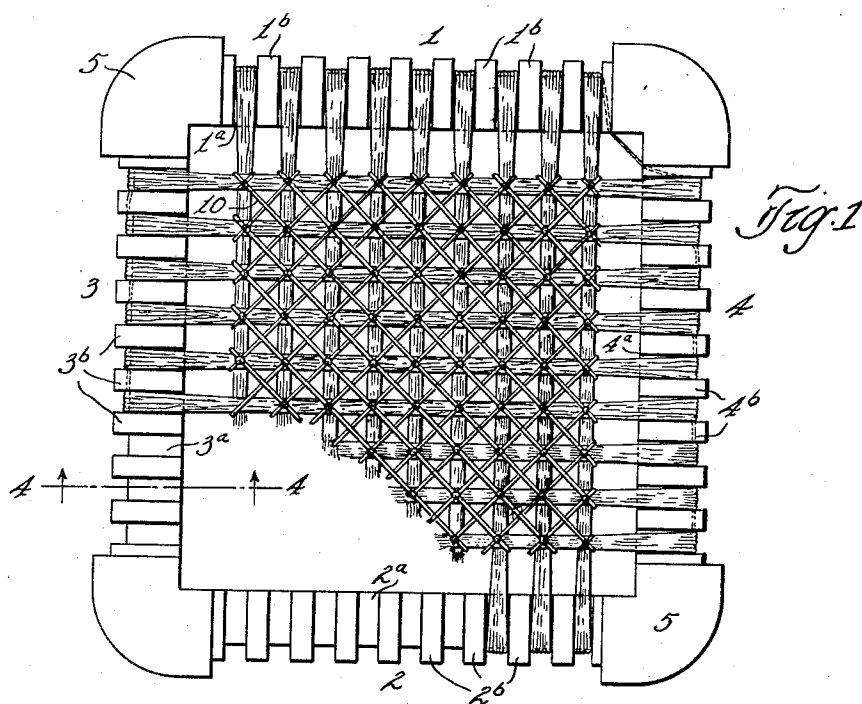
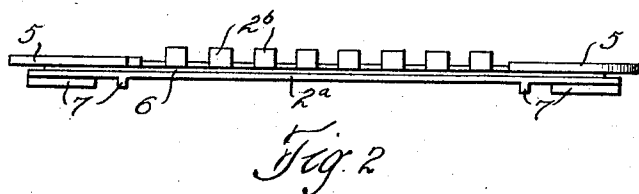
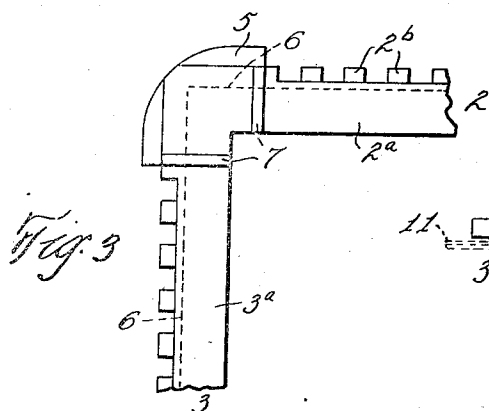
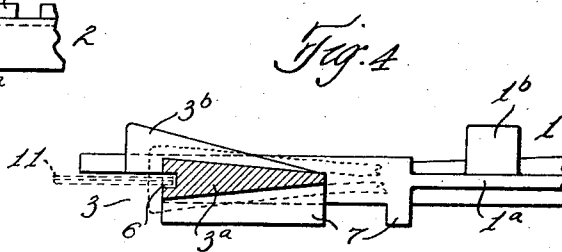
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WEAVING FRAME.

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UNITED STATES PATENT OFFICE.

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WEAVING FRAME.

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To all whom it may concern:

Be it known that I, MARCUS O. ANTHONY, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Weaving Frames, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates to an improved frame whereon table mats and like articles may be woven, the objects being to provide a device of this character which will greatly facilitate the weaving of the mat; its removal from the frame; will insure uniform work; and produce an even edge or fringe on the article.

Another phase of the invention resides in the method of weaving the mat. Heretofore, mats of the character to which my invention relates have been woven on frames provided with a row of pins along each of their four sides, and in order to have a uniform distribution of the twine or material between the strands running in one direction and those extending at right angles thereto, it was necessary to alternate a number of times between the two sets of strands during the weaving of the mat. That is to say, a number of courses were laid down in one set of strands, then an approximately like number in the other set, then back to the first set and so on, until the proper thickness of strand was obtained. Otherwise the strands extending in one direction would lie on top of those extending at right angles thereto without any interweaving of the strands, and obviously such a result would be quite undesirable.

It is a further object of my invention, therefore, to provide a method of weaving a mat which consists in producing the strands that extend in one direction, winding the strands extending at right angles thereto over and under the first strands so that their thickness will be divided substantially equally above and below the first, and binding the strands together where they intersect.

The present preferred embodiment of my invention is illustrated in the accompanying drawing. Fig. 1 is a plan view of the frame showing a mat woven thereon, a part of the mat being omitted to reveal more clearly the exact character of the frame; Fig. 2 is an edge view of the frame; Fig.

3 a fragmentary bottom plan; and Fig. 4, an enlarged sectional detail on the line 4-4 of Fig. 1.

The frame may be square or rectangular, the present illustration showing it square, and for convenience of description I will refer to the frame as having end members 1 and 2 and side members 3 and 4. Each member is composed of a rail designated by the same reference character as the member itself, augmented by the exponent *a*. Inasmuch as all of the members are identical, a description of one will suffice for all. With reference to rail 3^a it will be seen upon inspection of Fig. 4 that the same tapers gradually from its outer to its inner edge, and on its upper surface is provided with a series of fingers 3^b which project a suitable distance beyond its outer edge. The frame is preferably composed of an integral casting of aluminum or other light metal, and at the corners is provided with enlargements 5 which extend a distance beyond the ends of the fingers 1^b, 2^b, etc. A kerf 6 extends completely about the frame entering the outer edges of the side and end members a slight distance, as shown best in Figs. 3 and 4. Ribs 7, which depend from the frame adjacent each corner, serve as legs to sustain the frame when the same is placed upon a table or other supporting surface. It will be observed that the top wall of the kerf 6 is in the plane of the underneath surfaces of the enlargements 5 and fingers 1^b, 2^b, etc.

Mats of the character wound or woven on frames of the sort to which my invention relates are made of twine, and in the use of the frame the operator starts winding a strand over and under or around the frame, so as to speak, between adjacent ones of the fingers of opposed side or end members of the frame. For instance, he may start with the left hand vertical strand (as the parts are viewed in Fig. 1) and wind the twine about the frame until the desired thickness of strand is obtained when he will engage the twine beneath the first finger 1^b of end member 1 and bring it up between the first and second fingers. He will then wind a strand of corresponding thickness in the reverse direction about the end members of the frame between the first and second fingers of the opposed series. He will continue in this manner until all of the strands

extending between the end members of the frame are completed and when this has been done will carry the twine across the upper left hand corner of the frame and start winding the strands between the side members 3 and 4, the latter strands obviously inclosing or crossing above and below the strands previously wound. The strands are then tied at their intersections by diagonal cords 10, and the weaving of the mat is completed. The next step is to remove the mat from the frame, and this may be quickly and conveniently accomplished by running a knife blade, such as indicated in dotted lines at 11 in Fig. 4, about the kerf 6 with the result that the loops which embraced the side and end members will be cut at their centers to produce an even fringe, and the portions of the twine engaged beneath the alternate fingers of each frame member may be severed at the same time.

During the weaving operation, the overhanging portions of the enlargements 5 may be used as a rest for the edge of the frame while the diagonal cords 10 are be-

ing placed and tied; and while the mat is yet upon the frame and the frame placed on a supporting surface, the ribs 7 serve to maintain the mat out of contact with the supporting surface and thus keep it clean. 30

Having thus described my invention, what I claim is:—

1. A frame of the character set forth comprising side and end members, each member having a series of fingers projecting beyond its outer edge and provided with a kerf extending longitudinally of its outer edge beneath said fingers. 35

2. A frame of the character set forth comprising side and end members, each member having a series of fingers projecting beyond its outer edge, the member being provided with a kerf extending longitudinally of its outer edge and one wall whereof is coincident with the underneath surface of the overhanging ends of the fingers. 45

In testimony whereof, I hereunto affix my signature.

MARCUS O. ANTHONY.