Feb. 20, 1940. K. E. WALKER 2,190,813

PORTABLE HAND LOOM

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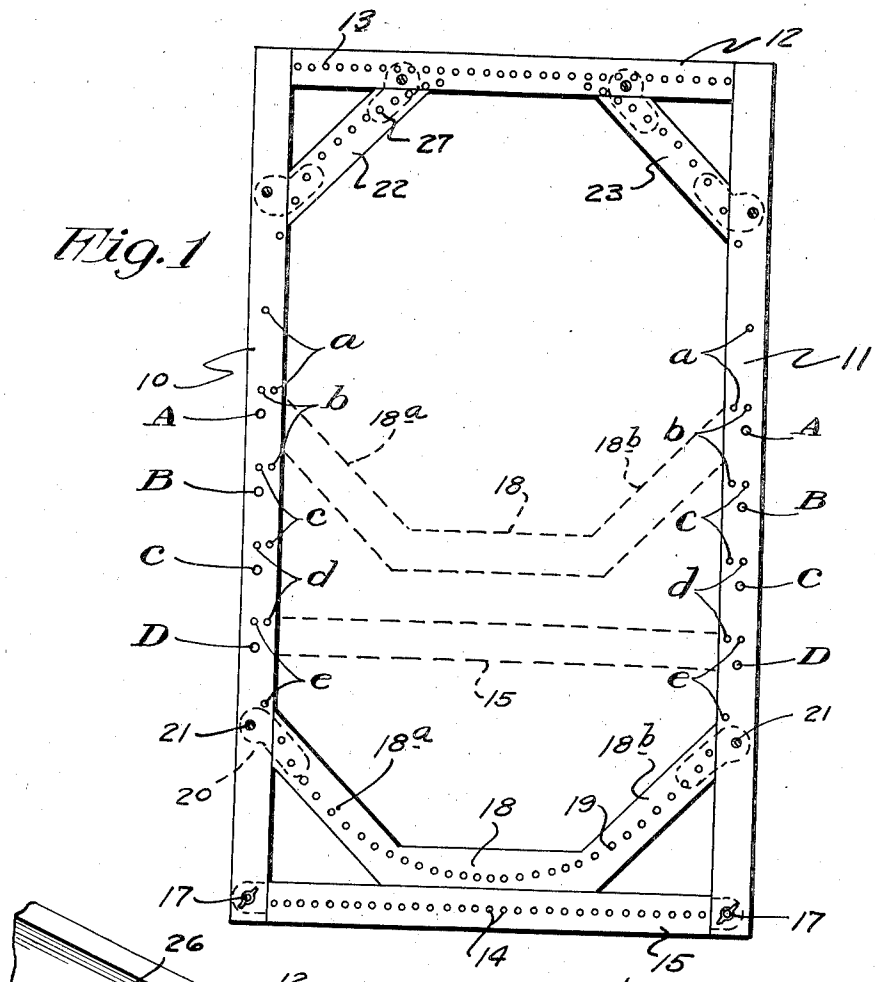



Fig. 1

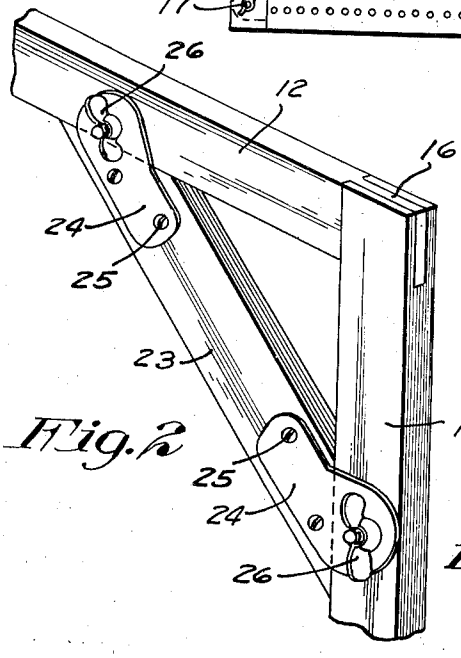



Fig. 2

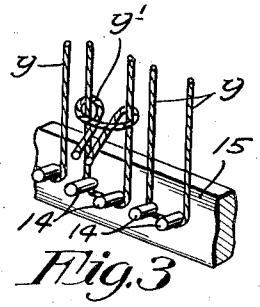



Fig. 3




Fig. 4

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## PORTABLE HAND LOOM

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5 Claims. (Cl. 139—34)

This invention is directed to a portable hand loom, particularly adapted for weaving rugs and similar articles by individual persons, particularly those who are desirous of following a hobby of this type. The invention is directed particularly to a hand loom of relatively inexpensive and light construction which may be easily carried from place to place and which is adapted for use either in weaving rugs or the like of rectangular form or of oval shape of varying sizes.

An important object of my invention is the provision of a relatively inexpensive hand loom which is composed of a suitable frame, preferably made of wood or equivalent suitable material, having a plurality of spaced apart pegs along both its upper member and its lower member to provide for winding or mounting thereon of one or more continuous strands of yarn, string, or the like; to provide also a portable hand loom in which the lower peg-carrying bar or member is removably mounted so that the size of the particular frame enclosure may be varied according to the size of the rug desired to be made.

A further object of my invention is the provision of a portable inexpensive hand loom composed principally of a rectangular frame, the upper and lower members of which carry a plurality of aligned pegs in combination with peg-carrying removable corner members, and an adjustably connected or mounted angular transverse bar connectible at its ends to the side members of the frame and at various and desired positions along the sides of the frame, said adjustable angular member also carrying a plurality of pegs which are adapted to cooperate with pegs at the opposite and upper ends of the frame in actual use.

A further object of my invention is the provision of a portable hand loom composed principally of a frame construction having a plurality of aligned pegs upon each of its opposite ends, and also provided with removable and adjustable diagonally extending and transversely extending peg-carrying members which may be selectively and optionally used when it is desired to weave rugs or the like of oval or rounded shape.

Other and further important objects of my invention will be apparent from the following specification and claims.

This invention (in a preferred form) is illustrated and described in the following specification and claims.

Referring to the drawing:

Fig. 1 is a side elevational view of the portable hand loom of my invention, and illustrating the optionally usable angular peg-carrying member in both lower and in optional dotted-line position;

Fig. 2 is a perspective view of the upper corner portion of my hand loom looking at the rear thereof;

Fig. 3 is a perspective fragmentary view illustrating the manner in which a continuous strand is mounted upon the hand loom, and illustrating one form of knot; and

Fig. 4 is a perspective view of a typical peg, which may be either stationarily mounted in the opposite transverse connecting members or which may be removably mounted in the adjustable corner members and adjustably mounted angular member, and in certain of the apertures of the side members.

Referring to the drawing reference numerals 10 and 11 designate the opposite normally vertical extending side members of the loom frame, and which are preferably made of wood though same may be made of other suitable material. The side frame members 10 and 11 are connected together by a transversely extending connecting bar 12 which has formed therein a plurality of substantially aligned peg-receiving apertures 13. These apertures 13 have mounted therein a plurality of pegs 14 which may be made of wood and one illustrated form of which is indicated in Fig. 4 of the drawing.

The lower portions of the side members 10 and 11 are detachably connected together by a transversely extending connecting cross bar 15 which likewise has formed therein a plurality of aligned apertures 13 and which have mounted therein a plurality of pegs 14 which extend perpendicularly. The opposite ends of the upper cross bar 12 are connected or joined to the two side bars or side members 10 and 11 by a mortise joint substantially as illustrated by numeral 16 in Fig. 2. The opposite ends of the lower cross bar 15 are preferably connected to the lower portions of the members 10 and 11 by relatively short apertured connecting plates, one end of which plates is connected by screws or the like to the lower cross bar 15 and the other end carrying a removable bolt and nut 17 which passes through registering apertures in such plate and in the lower ends of said side members 10 and 11, this connection being substantially the same construction as that illustrated for the diagonally extending corner member of Fig. 2. This removability and adjustability of the lower cross bar 15 permits said lower cross bar to be moved upwardly and mounted in any other of several positions also

parallel to the upper cross bar 12 thereby forming a shorter frame. This is accomplished by removing the nuts and bolts 17 and sliding the lower cross bar 15 upwardly and remounting the bolts and nuts 17 into any one of a plurality of spaced apart side apertures A, B, C and D.

The form of loom thus far described provides a rectangular frame with an adjustment for use in making rectangular rugs of several lengths according to desire, thereby mounting the two spaced apart peg-carrying bars to the desired distance apart from each other.

A further feature and accomplishment of my invention is the embodiment of selectively usable features for using my loom to make oval or round rugs. Numeral 18 designates an angular cross member whose ends 18*a* and 18*b* are formed at substantial and obtuse angles to the intermediate portion thereof. The angular cross member 18 is provided with a plurality of substantially aligned apertures in which are mounted pegs 19 in spaced apart relations. The opposite angular ends 18*a* and 18*b* are detachable, mountable and connectable to the side members 10 and 11 by means of a pair of connecting plates 20, one end of each of which are secured by screws or the like in each of said angular portions 18*a* and 18*b*, and the opposite ends of each of which are apertured and detachably connected to the said side members 10 and 11 by suitable bolts or wing nuts 21. This connecting means permits the selective mounting of the angular peg-carrying members 18 in any one of several positions, merely by utilizing any pair of the respective spaced apart apertures A, B, C, D or E. The uppermost position of the angular cross member 18 is illustrated in dotted lines, this position being one which permits the mounting of the longitudinally extending spaced apart strands for weaving a round rug.

Reference numerals 22 and 23 designate a pair of corner members preferably made of wood which are detachably mounted across the two upper corners of the loom as illustrated in Fig. 1. The opposite ends of said corner members 22 and 23 respectively carry flat apertured metal plates 24 which are secured to said corner members by screws 25 or the like substantially as illustrated in Fig. 2, and the projecting ends of each of said plates 24 are apertured to provide for detachable connection and mounting of said corner members in the position of Fig. 2 by means of bolts and wing nuts 26 which pass through suitably positioned apertures in the side members 10 and 11 and in the upper cross bar 12.

Each of the corner members 23 carry a plurality of perpendicularly extending pegs 27 which are mounted in suitable apertures in said corner members.

It is to be borne in mind that when the user of my novel loom desires to weave a rectangular or square rug, the angular cross member 18 and the corner members 22 and 23 may be entirely removed by unfastening the wing nuts and removing the bolts, or optionally the user may merely remove the respective pegs in said angular member 18 and in said corner members 22 and 23. I find it preferable however to remove said angular member and said corner members entirely as this is quicker than the latter named alternative.

When the user desires to mount the strands to weave an oval rug having rounded ends the respective corner members 22 and 23 are mounted in position as illustrated in Fig. 1 as is likewise the angular member 18 to the desired position according to the length of the oval rug proposed to be made. In doing the latter, any pair of the apertures from A to D inclusive may be used, that is, any pair which is the same distance from the end 12 of the frame. A further feature of my invention is that the respective pegs on the corner members 22 and 23 and on the angular member 18 are positioned in a slightly arcuate path and not in a path following the center line of such members. In this manner, the spaced apart parallel longitudinal strands mounted back and forth upon the respective pegs of the angular member 18, on the corner members 22 and 23 and the intermediate portion of the upper cross bar 12 define oval or round ends instead of forming relatively sharp corners, and when the rug is completed by tying the knots upon each pair of adjacent strands, as for example in the manner illustrated in Figure 3, the finished rug will actually have symmetrical round or oval ends.

It is to be borne in mind that any one of a plurality of known knots may be used in the weaving of the rug which is adapted to bind and weave the longitudinal strands together. My before described construction, therefore, provides a convertible loom selectively usable either for rectangular rugs of various lengths or for oval rugs of any one of a number of desirable lengths, and also provides a loom wherein a circular rug may be woven in the aforedescribed manner when the angular cross bar member 18 is moved to substantially the position illustrated in dotted lines in Fig. 1.

Various changes may be made in the embodiment of the invention herein specifically described without departing from or sacrificing any of the advantages of the invention or any features thereof, and nothing herein shall be construed as limiting the invention, its concept or structural embodiment as to the whole or any part thereof except as defined in the appended claims.

I claim:

1. In a portable hand loom, a substantially rectangular frame including spaced apart cross members at its ends; a plurality of pegs removably mounted in said end members, said pegs providing means for lacing and mounting the longitudinal strands adapted to form a part of a rectangular rug; and slidably and adjustably mounted corner members traversing the two adjacent corners of the lower end of said frame and lying in the same plane with said rectangular frame, said corner members having a plurality of apertures therein adapted to receive pegs; and means for securing said lower corner members in desired position.

2. In a portable hand loom, a frame, said frame including a slidable end connecting member, a plurality of pegs mounted in said frame at opposite edges thereof; and a plurality of apertured corner members traversing the corners of said frame respectively, said corner members adjacent said slidable connecting member having one end releasably connected to the sides of said frame, and manually adjustable bolt means adjustably retaining said slidable connecting member and adjacent corner members in desired position.

3. In a portable hand loom adapted for use in weaving rugs of various shapes, a rectangular frame including spaced apart end bars; a plurality of pegs in each of said end bars; a pair of arcuate apertured corner members traversing the

two upper corners of said frame; a pair of lower apertured corner members traversing the lower corners of said frame, the apertures of said corner members being adapted to receive pegs, the lower end bar and lower corner members being slidably and adjustably mounted with respect to the other corner member and manually adjustable bolt means retaining said slidable end bar and said lower corner members in desired positions.

4. In a portable hand loom adapted for use in weaving rugs of various shapes, a rectangular frame including spaced apart end bars; a plurality of pegs in each of said end bars; a pair of arcuate apertured corner members traversing the two upper corners of said frame; a pair of lower apertured corner members traversing the lower corners of said frame, the apertures of said corner members being adapted to receive pegs, one of said corner members being adapted to receive pegs, one of said end bars and the adjacent corner members being slidably mounted, and metal connector elements for releasably securing said end bar and adjacent corner members in desired positions with respect to each other.

5. In a portable hand loom adapted for use in weaving rugs of various shapes, a rectangular frame including spaced apart end bars, one of said end bars being releasably connected; a plurality of pegs in each of said end bars; a pair of apertured corner members traversing the two upper corners of said frame; a pair of lower apertured corner members traversing the lower corners of said frame, the apertures of said corner members being adapted to receive pegs; manually adjustable connecting means for securing said lower corner members and said lower end in desired positions with respect to the other end member whereby said releasable end bar and adjacent corner member may be moved to define annular areas of various shapes.

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