

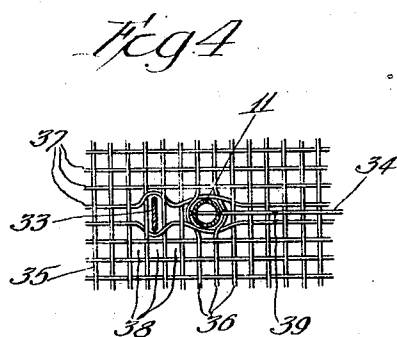
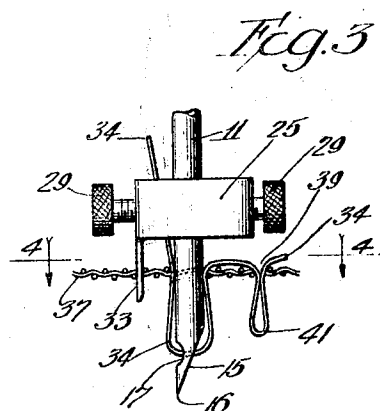
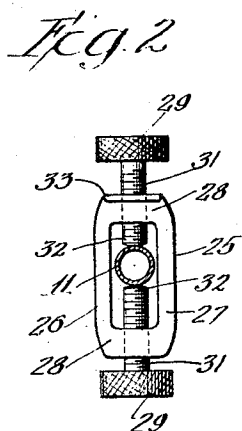
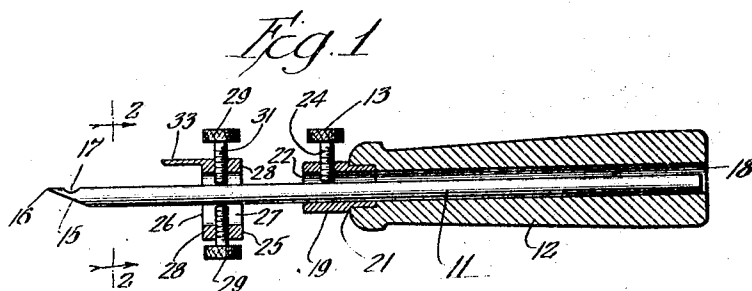
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J. C. DUNER

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DEVICE FOR MAKING RUGS

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Inventor:
John C. Duner,
By Munday, Clarke & Carpenter.
Attos:

UNITED STATES PATENT OFFICE.

JOHN C. DUNER, OF CHICAGO, ILLINOIS.

DEVICE FOR MAKING RUGS.

Application filed March 19, 1927. Serial No. 176,839.

This invention relates in general to rug making tools and has particular reference to a needle of improved form for the purpose of knitting stranded material into a burlap base in the making of hooked rugs.

A hooked rug is made by knitting looped portions of a suitable stranded material through the interstices of a loosely woven base, such as burlap. The base is stretched upon a frame and the loops, which comprise portions of a continuous colored thread, are thrust through the base from the reverse side and create spots of color where they protrude from the obverse side of the base. By using colored threads and properly arranging the loops in the base according to color various designs may be worked into the resultant rug. In order to insure a uniform rug weave it is necessary to insert the loops into the base at uniformly spaced intervals. Hooked rugs are made by hand and the rug maker determines by eye the point in the base at which to insert consecutive loops. Close attention on the part of the rug maker is necessary to insure equal spacing of the loops, and such attention imposes considerable nervous tension upon the rugmaker, the eyes being under especial strain as the rugmaker continuously watches the interstices of the base. Another factor which determines the texture of a hooked rug is the length of the loops protruding through the burlap base. If the loops are long, the rug will be soft and fluffy and if the loops are short, the rug will be of firmer texture. To secure uniform texture the loops in a rug should be of uniform length. When hooked rugs are made by hand the rugmaker has determined the loop lengths by regulating the insertion of the needle through the base. It is my purpose to provide a needle having means for knitting uniform loops, uniformly spaced, into the rug base, and thus to simplify the making of hooked rugs and to reduce the coincident strain upon the rugmaker.

The principal object of the invention is the provision of an improved rugmaking instrument having means for automatically marking the carpet base, during the knitting of a loop therein, to determine the point in

the base at which the succeeding loop should be knit.

Another important object of the invention is the provision of a rug making needle having a marking device adjustably mounted thereon and arranged to provide a stop means for controlling the length of the loops sewn by the needle and a marking means for indicating the point in the base at which the succeeding loop should be sewn.

Numerous other objects of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawings:

Figure 1 is a side view of a rug making needle and a marking prong embodying my invention;

Fig. 2 is a section taken on line 2—2 of Fig. 1;

Fig. 3 is a side view of a needle and prong embodying my invention, illustrating the use of the device; and

Fig. 4 is a section taken on line 4—4 of Fig. 3.

To illustrate my invention I have shown on the drawings a carpet making tool, comprising, a needle 11 mounted within a handle 12 and secured therein by a setscrew 13.

The needle 11 comprises a tube of metal one end of which is cut diagonally as at 15 to form a point 16. A thread carrying aperture 17 is provided in the side of the tube 11 near the point 16.

The handle 12 is cylindrical in shape and is provided with a longitudinal aperture 18. A collar 19 is secured to the handle as at 21 in any convenient manner and is provided with an aperture 22 continuous with the aperture 18 through the handle. The needle 11 is mounted longitudinally within the apertures 18 and 22 and is secured therein by the setscrew 13 which engages through the collar 19 and which has a lower end disposed within the aperture 22 and adapted for engagement with the needle 11 to secure it in place in the handle.

A marking device 25 is mounted upon the lower or tip portion of the needle 11 which

protrudes from handle 12. The marking device comprises a substantially rectangular collar 26, the sides 27 of which slidably engage needle 11. The ends 28 of the collar 26 are spaced apart to permit movement of the needle therebetween. Set screws 29 are mounted in the opposed ends 28 and have shank portions 31 which pass through the collar and engage the needle 11 between their oppositely disposed tips 32 and thus secure the collar to the needle. Thus mounted the collar embraces the needle and the ends 28 thereof are spaced from the needle, said spacing being controlled by the set screws 29. One of the ends 28 is provided with an integral prong 33 which extends downwardly therefrom parallel with the needle 11.

By manipulation of the set screws 29 the marking prong 33 may be spaced at a desired distance from the needle 11, that is to say by loosening one set screw and tightening the other the position of the needle 11 within the collar may be varied with respect to the end 28 which carries the prong 33. The collar also is adapted for adjustable mounting upon the needle 11 and may be fastened thereon at any distance from the point 16, in order to provide a desired effective length of needle protruding below the collar.

In operation, the marking device is adjusted to the desired position upon the needle by manipulation of the set screws 29. The needle is threaded with suitable stranded material 34 and thrust through the base 35. The base comprises loosely woven warp and woof strands 36 and 37 which provide a cloth having a plurality of interstices 38 arranged in vertical and horizontal rows. The threaded needle is thrust through any convenient one 39 of the interstices 38 of the base and carries with it a loop 41 of the stranded material 34. The needle is then withdrawn from the base leaving the loop 41 positioned therein. The loop is held within the base by the friction of the adjacent strands of the base and by lateral pressure of adjacent loops when the carpet is completed.

When the needle 11 is pressed into the carpet base, the spaced prong also is forced through at a point spaced from point 39 by the predetermined setting of the marking device. The prong enlarges the interstices of the base and makes a clearly perceivable aperture which marks the position of the succeeding stitch properly spaced from the preceding one. Moreover, the enlargement of the interstice facilitates insertion of the needle through the base.

The collar 26 is fastened to the needle at a distance from the lower end 16 thereof and provides a stop which limits the effective

length of the needle, that is to say the length of the needle which is inserted through the base in knitting the loops 41 therein. Each loop thus formed is of uniform size, depending upon the effective length of needle used, and uniform rug texture is assured. By varying the position of the collar upon the needle, loops of various sizes may be formed in the rug.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that many changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A rug weaving tool, comprising a needle, a marking device comprising a prong support engaging said needle and a prong mounted thereon in spaced relationship with said needle, and means for adjustably securing the prong support to the needle.

2. A rug weaving tool, comprising a needle, a marking device comprising a collar embracing said needle and a prong mounted thereon in spaced relationship with said needle, and setscrews engaging said needle and adjustably engaging said collar to adjust the spaced relationship of said needle and said prong.

3. A rug weaving tool, comprising a hollow tube provided with a point and thread carrying aperture at one end, an adjustable handle engaging said tube at its unpointed end, an adjustable marking device comprising a supporting collar engaging said tube, and a marking prong integral therewith and spaced from the tube, and set screws engaging said collar and said tube for adjustably spacing said prong from said tube.

4. A rug weaving tool, comprising a needle and a marking device, said marking device comprising a collar adapted for adjustable engagement along and about said needle and a prong mounted in said collar and spaced from said needle, said collar providing means for adjustably spacing said prong from said needle and for adjustably limiting the effective length of said needle below said collar.

5. A rug weaving tool comprising a needle and a combined marking prong and loop length determining device mounted thereon.

6. A rug weaving tool comprising a needle and a combined marking prong and loop length determining device adjustably mounted thereon.

7. A rug weaving tool comprising a needle and a combined marking prong and

loop length determining device mounted thereon, the spaced relationship between the prong and the needle being adjustable. 9. A rug weaving tool comprising a needle and a combined marking prong and loop length determining device, the spaced

5 8. A rug weaving tool comprising a relationship between the prong and the needle and a combined marking prong and needle being adjustable and the position of loop length determining device mounted the loop length determining device relative to the needle point being adjustable. 15
being adjustable.

JOHN C. DUNER.