

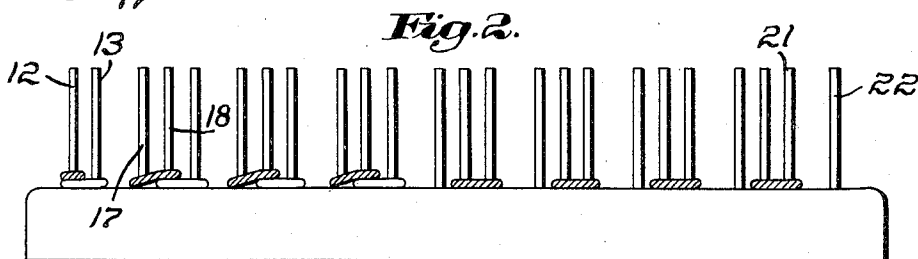
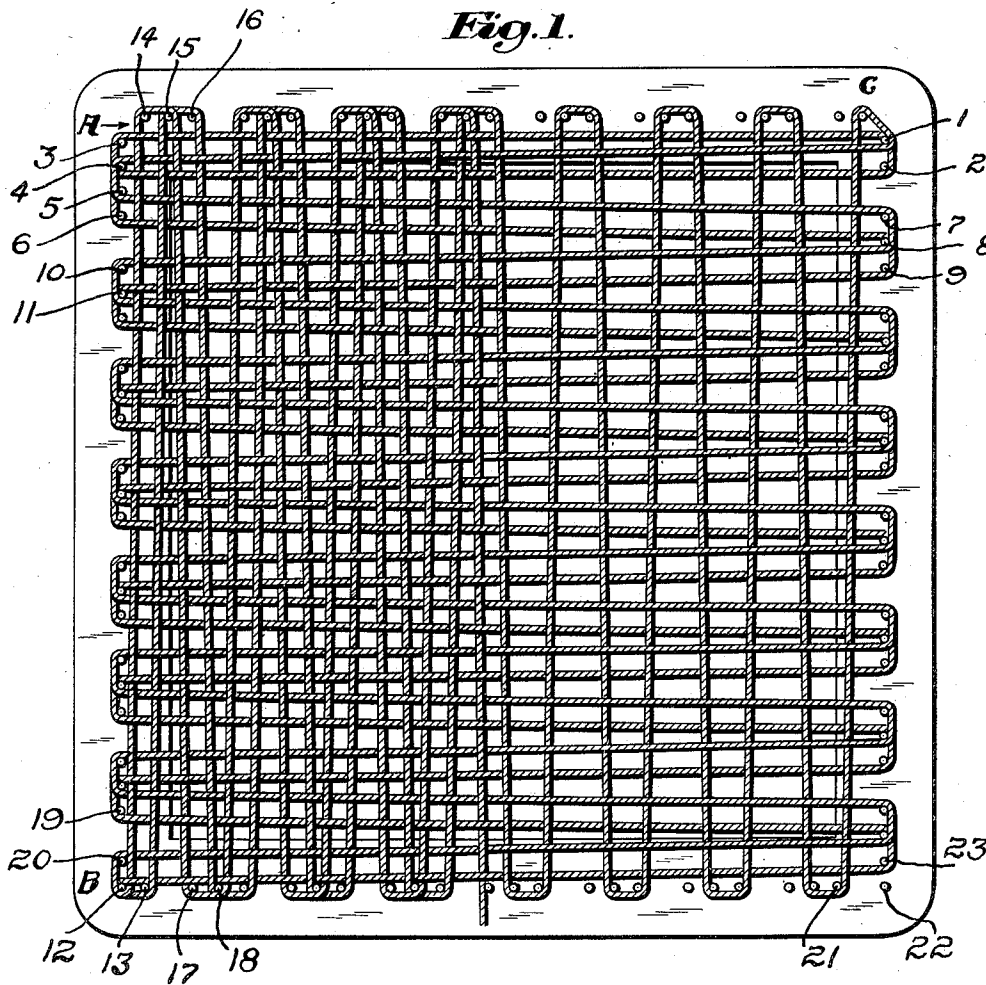
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2,011,916

YARN AND THE LIKE SUPPORTING DEVICE

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## UNITED STATES PATENT OFFICE

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## YARN AND THE LIKE SUPPORTING DEVICE

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3 Claims. (Cl. 28—15)

My invention aims to provide improvements in a yarn or the like supporting device upon which may be produced a woven square of material in compact form.

In the drawing which illustrates a preferred form of my invention:—

Figure 1 is a plan view of the device showing the manner of application of the yarn or the like thereto; and

Fig. 2 is an edge view of the device as shown in Fig. 1.

A preferred form of my invention, as illustrated by the drawing, comprises a four-sided frame with upright pins driven into the frame in a predetermined outline, as shown in Fig. 1.

Some of the pins are arranged in groups of three, as shown in Fig. 2 and the center pin of each group of three, with the exception of the corners, is opposite a space between two groups on the opposite side of the frame.

At the corners the group arrangement of the pins is irregular to provide an easy and convenient manner of winding the yarn or the like correctly on the device, as shown in Fig. 1. This arrangement of pins also provides a convenient means for weaving yarn or the like with a needle (not shown) so that the completed piece of woven material will be tight and compact to its very edge.

One method of using the device, as shown in Fig. 1, is as follows: Hold the device so that the arrow A is to the lower left. Holding the end of yarn or the like at the arrow A, the operator draws the yarn or the like between the pins to the far side of the device in the direction indicated by the arrow A. Pass the yarn to the right around the first two pins 1 and 2 and return the yarn or the like to the side nearest the operator, drawing the yarn or the like out between the second and third pins 4 and 5 at the right of the arrow A. Tie securely with end of yarn close to pins. Pass the yarn or the like to the right around the next two pins 5 and 6 and draw to the far side bringing it out between the first and second pins 7 and 8 in the group directly across. Pass the yarn to the right around two pins 8 and 9 and back to the near side out between the first and second pins 10 and 11 in the next group, around two pins and back, continuing as described until point B is reached. Now turn the device so that B is to the lower left. Pass the yarn around the first two pins 12 and 13 and go to the opposite side, bringing the yarn or the like out between pins 14 and 15, around two pins 15 and 16 and back to the near side between the first

and second pins 17 and 18 in the next group. Continue in this manner until point C is reached. Turn the device again so that C is at the upper left. Pass the yarn through the first and second pins 1 and 2 to the near side, coming out between the first and second pins 3 and 4. Pass the yarn around two pins 4 and 5 and go back to the far side, bringing the yarn or the like out through the open space between pins 2 and 7. Work around two pins 7 and 8 and back to the near side, coming out through the open space between pins 6 and 10. This is continued until the yarn or the like comes out between pins 19 and 20. Measure the correct amount of yarn or the like needed for weaving in the following manner: Wind the yarn loosely four and one-half times around the device on the outside of the pins and break yarn. Unwind the yarn from the outside of the pins and thread the needle (not shown). Starting between the first and second pins 12 and 13, pass the needle over the outside loop, under the next yarn, over the next, under, over, etc., entirely across and draw the yarn completely through, coming out to the left of pin 14. Pass the yarn around the two pins 14 and 15 and then back over the outside loop, under the next yarn, over, under, etc., bringing the needle out at the open space between pins 13 and 17. Repeat weaving in this manner across the device, ending with the last row of weaving next to the pins and coming out between pins 20 and 21. Turn around pin 20 and tie the yarn to the loop already around pin 22. Remove the completed piece from the pins by pushing up from underneath.

It will be apparent to anyone, skilled in the art of weaving, that the group spacing of the pins is a very great aid in arranging the yarn, particularly since mistakes waste time and result in imperfectly woven pieces. Furthermore, the number of pins may be reduced to a minimum by the group spacing and instructions may be more easily followed.

Variations may be made in the pieces by using different weights of yarn or the like; winding in whole or in part with different colors and weaving with like or different colors; winding with two or more strands of like or different color; and weaving with single or more strands of like or different colors.

While I have illustrated and described one preferred form of my invention, I do not wish to be limited thereby, the scope of my invention being best defined by the following claims.

I claim:

1. A yarn and the like supporting device of the

- class described comprising a support in the form of a rectangular frame and a series of pins extending upwardly from said frame and being arranged in spaced predetermined groups on each side of the frame with greater spaces between adjacent groups than the spaces between the pins of each group, the center pin of each group on one side being opposite a space between the groups at the opposite side.
- 10 2. A yarn and the like supporting device of the class described comprising a support, a series of pins arranged in a rectangular formation on said support and some of said pins at each side being arranged in groups of three with the center pin of
- 15 each group of three being directly opposite to a

space between two groups at the opposite side.

3. A yarn and the like supporting device of the class described comprising a support, a series of pins arranged in a rectangular outline on said support and extending upwardly from one face of said support, said pins being arranged to form a series of groups on each side of the rectangular formation, all of which pins apart from those at the corners are in groups of three, and there being greater spaces between adjacent groups than between the pins of each group whereby said spaces between said groups provide indicating means and the pins of each group being directly in line with each other.

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