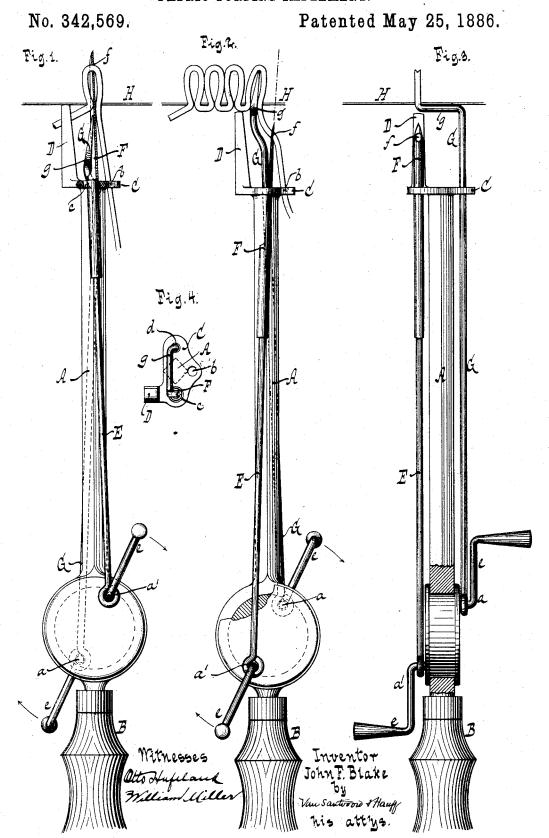
J. F. BLAKE.

FABRIC TURFING IMPLEMENT.



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UNITED STATES PATENT OFFICE.

JOHN F. BLAKE, OF NEW YORK, N. Y.

FABRIC-TURFING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 342,569, dated May 25, 1886.

Application filed December 10, 1885. Serial No. 185,280. (No model.)

To all whom it may concern:

Be it known that I, John F. Blake, a citizen of the United States, residing at New York, in the county and State of New York, have in-5 vented new and useful Improvements in Fabrie-Turfing Implements, of which the following is a specification.

My invention relates to machines for turfing fabrics by forming a series of loops alongside 10 of each other on canvas or other material; and it consists in certain novel features of construction, which are fully pointed out in the following specification and claims, and illustrated in the accompanying drawings, in which-

Figure 1 is a sectional side view of my machine. Fig. 2 is a similar view of my machine with the parts in a different position. Fig. 3 is a sectional front view. Fig. 4 is an end view.

Similar letters indicate corresponding parts. In the drawings, the letter A designates the stock, provided with a handle, B. A double crank, having the wrist-pins a a' diametrically opposite to each other, has its bearing in this stock near the handle B, while at some dis-25 tance from this bearing is the guide-plate C, from which extends a stop, D. The guideplate is provided with an opening, b, Fig. 4, through which the worsted or other article of which the loops are to be formed passes, while $_{30}$ openings c d in said plate form guides and fulcrums for the needle-bar E, which carries the needle F and the loop-holder G. Both the needle-bar and the loop-holder are attached to the double-crank—one to each wrist-pin—and, 35 when this crank is rotated by means of the

erank-handles e, both the needle and the loopholder have imparted to them "fourway" motions, but always in directions opposite to

The operation of my machine is as follows: The worsted or other turfing material is passed through the opening b in the guide-plate C, and from there to and through the eye f of the needle F. The parts are then moved to the 45 position shown in Fig. 1, and the needle is

thrust through the canvas H until the stop D rests against the same. The crank-handles e are now turned, and as the wrist-pins are carried around by the double-crank the loop-

50 holder will slide up close to the needle in such a way as to pass inside of the loop formed by the needle, while the needle will move down | sage of the looping material, a loop-holder, G,

until the parts are in the position shown in Figs. 2 and 3. In these figures it will be observed that the loop-holder has moved up un- 55 til the bend or shoulder g touched the canvas and could go no farther, while the continued action of the wrist-pin a has caused the whole machine to recede and move the stop D away from the canvas. It must also be observed 60 that the wrist-pin a, as it passed over the center of the double-crank, has caused the loopholder to have a tendency to move toward one side; but as this sidewise tendency does not begin until the point of the loop-holder has en- 65 tered the hole made in the canvas by the needle, and is there held fast, the sideward motion is transferred to the fulcrum of the loop-holder, which is in the guide-plate C, and, as this sideward motion continues, the point of the 70 loop-holder being held fast, the guide-plate, which is fast to the stock, and also carries the stop D, is moved sideward, carrying the whole machine to make a sideward motion, while it rests on the bend or shoulder of the loop-hold-75 er, which sideward motion is one half of the feed-step, and will bring the needle into the position shown in said Fig. 2. As the rotation of the double-crank is continued, a similar sideward tendency is imparted to the point of the 80 needle as the same enters the canvas, with a similar result, causing the machine to make the other half of the feed-step, and again bringing the parts back to the position shown in

What I claim as new, and desire to secure

by Letters Patent, is-

1. The combination of a stock, A, having at one end a guide-plate, C, provided with the opening b, for the passage of the looping mate- 90 rial, a loop-holder, G, having a lateral bend or shoulder, g, beyond the guide-plate, a needlebar, E, a needle, F, carried thereby, and a double crank journaled on the stock, and having the wrist-pins arranged diametrically op- 95 posite each other and extending from opposite sides of the crank and connected with the loop-holder and needle-bar, said holder and needle-bar passing through and guided by the guide-plate, substantially as described.

2. The combination of the stock A, having at one end a plate, C, provided with the projecting stop D, and the opening b, for the pas-

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having the lateral bend or shoulder g, a needle-bar, E, a needle, F, carried thereby, and a double crank journaled on the stock and having two wrist-pins projecting, respectively, from opposite sides of the crank, and respectively connected directly with the loop-holder and needle-bar, said holder and bar extending through openings in the guide-plate, substantially as described.

In testimony whereof I have hereunto set 10 my hand and seal in the presence of two subscribing witnesses.

JOHN F. BLAKE. [L. S.]

Witnesses:

W. HAUFF, E. F. KASTENHUBER.