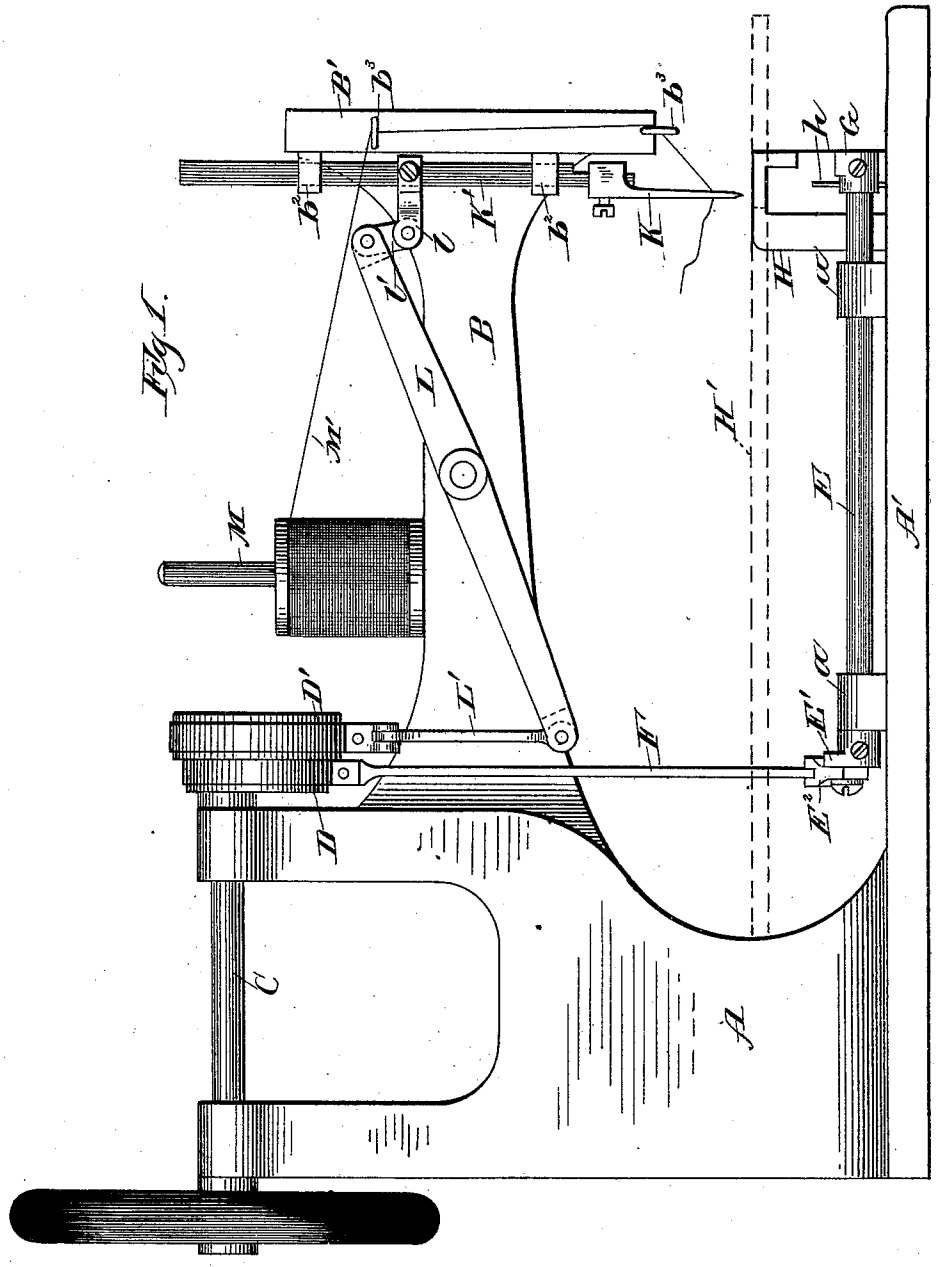
(No Model.) 2 Sheets—Sheet 1.

C. W. DIKEMAN.

MACHINE FOR TURFING FABRICS.

No. 362,368. Patented May 3, 1887.



Witnesses:
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(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

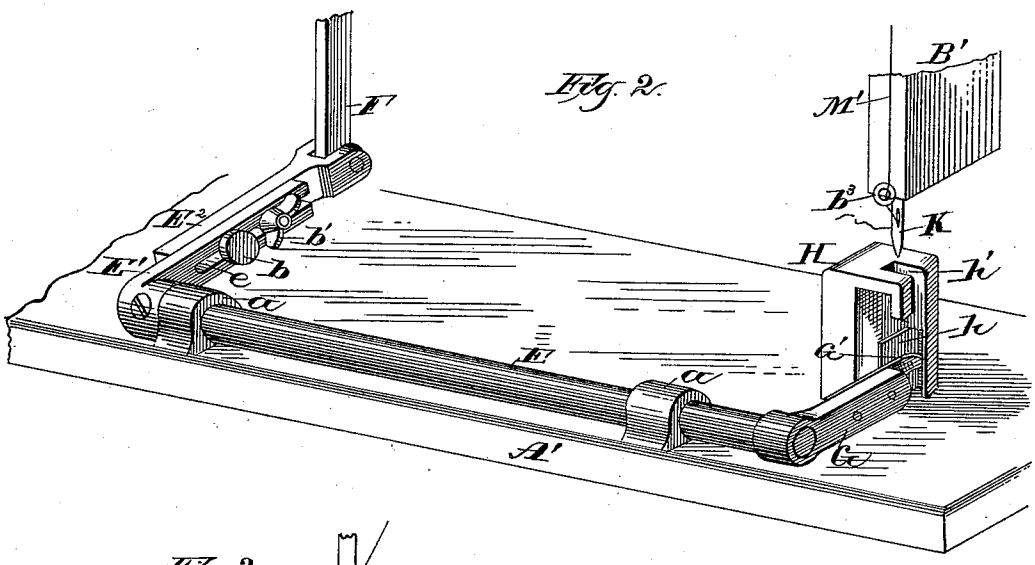


Fig. 3.

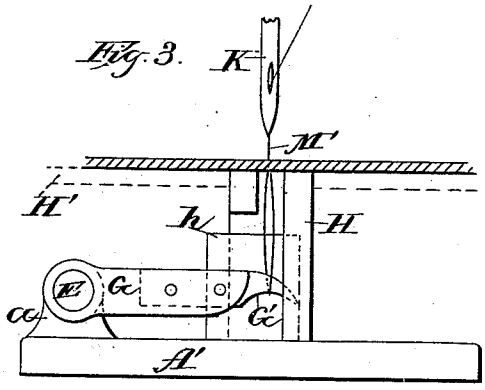
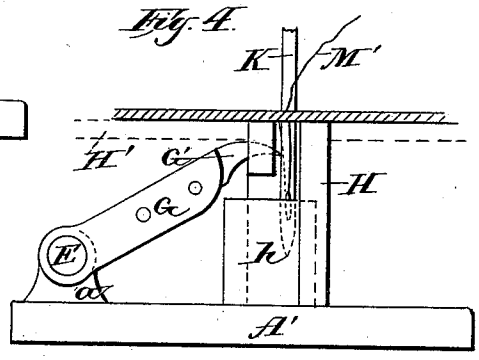


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES W. DIKEMAN, OF RACINE, WISCONSIN.

MACHINE FOR TURFING FABRICS.

SPECIFICATION forming part of Letters Patent No. 362,368, dated May 3, 1887.

Application filed August 22, 1885. Serial No. 175,058. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. DIKEMAN, of Racine, in the county of Racine and in the State of Wisconsin, have invented certain new and useful Improvements in Machines for Turfing Fabrics; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to turfing-machines for making and ornamenting rugs, &c., being an improvement on the machine shown and described in my patent, No. 320,339, dated June 16, 1885; and it consists in certain peculiarities of construction and combination of parts, to be hereinafter described with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 is a side view of my invention. Fig. 2 is a perspective view of the lower portion of the same. Figs. 3 and 4 are front views of the looping mechanism in different positions.

A is the frame of my machine, which has a bed, A′, and goose-neck B, terminating in head B′, with guides b^2 b^2 for the needle-bar and guides b^3 b^3 for the yarn, thread, &c.

C is the driving-shaft, and D D′ eccentrics carried by the driving-shaft. The eccentric D is linked to a rock-shaft, E, that rocks in bearings *a a* on the bed A′. The inner arm of rock-shaft E is made in sections E′ E^2, the section E′ being slotted, as at *e*, while section E carries a headed bolt, *b*, and binding-screw *b′*.

F is the link that connects eccentric D with rock-shaft E through arm E′ E^2, and G is an arm of rock-shaft E, that carries the looping-hook G′.

The arm composed of the sections E′ E^2 permits of an adjustment being effected, whereby the play of the rock-shaft E is varied according to the length of the loop desired.

H is the work-stand of my machine. This stand contains a chamber in which is a vertical partition, *h*, and is also slotted, as at *h′*, to receive the needle K, which is secured to a vertical plunger, K′, and this bar is connected by an arm, *l*, link *l′*, lever L, and link L′, with the eccentric D′.

M is the pintle or support for the spool for the yarn, thread, or rag strip M′. A work-plate, H′, (indicated by dotted lines,) is supported above the bed A′ at a height coinciding with the top of the work-stand H.

The operation of my device is as follows: The needle is threaded with material to be turfed into the backing, and the latter is placed upon the work-plate. Now, as the driving-shaft C is turned, the eccentric D′ will lift upon the rear end of the lever L and depress the needle, and eccentric D will lift upon arm E′ E^2, and thus raise the hook G′, and the two eccentrics are so timed that just after eccentric D′ has begun to depress its end of the lever L, and thus to lift the needle, the eccentric D will begin to depress the hook, so that the hook will enter the loop made by the sagging of the thread while the needle K is on the rise. The partition *h* is just about high enough to reach the eye of the needle when the latter is fully depressed, and the office of this partition is to prevent the thread from getting beneath the needle-point and evading the hook.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a turfing-machine, the combination of a work-stand having a chamber provided with a needle-slot, and a vertical partition at right angles to said slot, a needle, a looping-hook, and a mechanism arranged to simultaneously actuate said needle and hook in opposite directions, substantially as and for the purpose set forth.

2. In a turfing-machine, the combination of a work-stand having a chamber provided with a needle-slot, and a vertical partition at right angles to said slot, a needle, a driving mechanism operatively connected to the needle-bar, and a rock-shaft provided at one end with an arm carrying a looping-hook and at its other end with an adjustable sectional arm connected with said driving mechanism, all arranged to operate substantially as and for the purpose set forth.

3. In a turfing-machine, the combination of a work-stand having a chamber provided with a needle-slot, and a vertical partition at right angles to said slot, a needle-bar, a driving mechanism consisting of a shaft carrying eccentrics, a lever linked at one end to one of the eccentrics and likewise connected at its

other end with said bar, and a rock-shaft provided at one end with an arm that is linked to another of the eccentrics and at its other end with another arm carrying a looping-hook, all arranged to operate substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

CHARLES W. DIKEMAN.

Witnesses:

S. S. STOUT,

H. G. UNDERWOOD.