F. M. Osborn,

Carpet-Stretcher,

No. 55,154. Patented May 29, 1866.

Fig: 2.

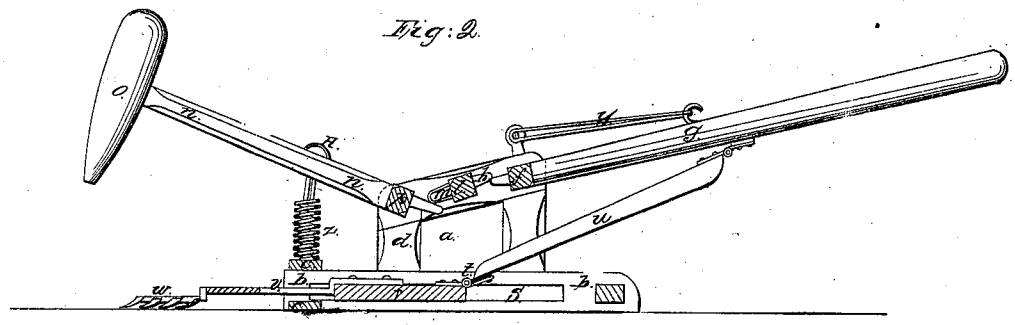
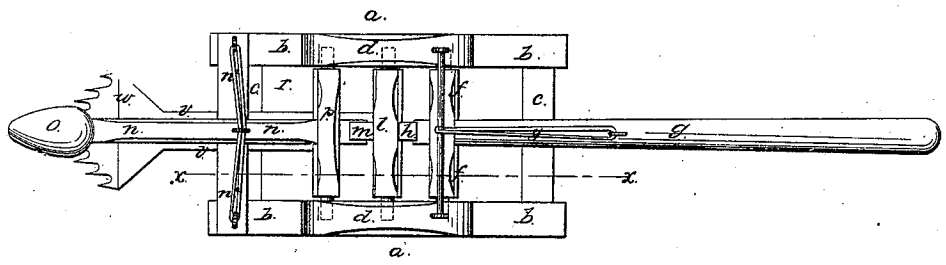


Fig: 1.



Witnesses:

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UNITED STATES PATENT OFFICE.

F. M. OSBORN, OF DOVER PLAINS, NEW YORK.

CARPET STRETCHER AND HAMMER.

Specification forming part of Letters Patent No. **55,154**, dated May 29, 1866; antedated May 22, 1866.

To all whom it may concern:

Be it known that I, F. M. OSBORN, of Dover Plains, in the county of Dutchess and State of New York, have invented a new and Improved Machine for Stretching and Tacking Carpets; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an implement or machine for the laying down of floor-carpets; and it consists in a novel combination and arrangement of a stretcher for stretching the carpet and a hammer for driving the nails or tacks used into the carpet for holding the same, the stretcher and hammer being so arranged with regard to each other and operated by a common lever-handle that when the carpet has been stretched by the stretcher the hammer shall be brought down upon the same with sufficient force to insert or drive the tack or nail through the carpet into the floor under it.

Having thus generally stated the object of the present invention and the manner in which it is secured, I will now proceed to describe the same in detail, reference being had to the accompanying plate of drawings, of which—

Figure 1 is a plan or top view of the machine, and Fig. 2 a longitudinal vertical section taken in the plane of the line *x x*, Fig. 1.

a a in the drawings represent the frame-work of the machine, which consists of two parallel horizontal side pieces, *b b*, secured together by cross ties or braces *c c* at each end; *d d*, two vertical frames secured to the upper surfaces of the side pieces, between which is hung, by its cross-bar *f*, a horizontal lever-handle, *g*, the inner end of which abuts against the under side of one arm, *h*, of the cross-bar *l*, turning also in bearings of the said frames *d d*, the arm *m* upon the opposite side of said cross-bar *l* resting upon the inner end of the handle-shaft *n* of the hammer-head *o*, which shaft is hung by the cross-bar *p* in bearings of the frames *d d*. Over the hammer-shaft *n* passes an elastic band, n^2, secured at each end to the side pieces, *b b*. *r* is a plate or frame placed in and between the side pieces, *b b*, in grooves or ways *s s* of which it moves in a horizontal plane. To one end of this plate *r*, by a hinge-joint, *t*, is attached one end of a connecting-rod, *u*, the other end of which is similarly hinged to the under side of the lever-handle *g*. To the opposite end of the plate *r* to that at which the connecting-rod *u* is secured, as above described, is attached, by an arm, *v*, a stretcher, *w*, made of a toothed or serrated plate, as plainly seen in the drawings, this stretcher extending outward from the frame-work of the machine in the same line therewith and under the hammer-shaft, and having its teeth bent downward so as to insert themselves in the surface upon which the machine may be placed.

The machine, constructed and arranged as above described, is, when used, placed upon the carpet which it is desired to put down, the carpet being first properly laid or spread out, within a short distance from the mop-board of the finish about the room, when, first bearing down with one hand upon the frame-work of the machine sufficiently to give it a firm bearing, the lever-handle *g* is depressed with the other hand, which, acting through the connecting devices above explained, moves the stretcher forward toward the mop-board, pulling the carpet with it and stretching it, while at the same time the hammer-head is raised until the arm *m* disengages from its shaft, and is then brought down with great force upon the fastening tack or nail used, properly placed therefor in the carpet by means of the elastic band n^2, driving the tack through the carpet into the floor under it, the lever-handle then being thrown back by its spring or elastic strap *y*, drawing the stretcher with it, and the hammer by the reaction of the coiled spring *z*, as is obvious without further explanation.

The machine is then moved along upon the carpet a short distance, according to the closeness with which it is desired to have the fastening-tacks inserted in the carpet, when the same operation is again performed, as above explained, and so on as long as may be requisite.

The stretcher and hammer are arranged with regard to each other in such a manner that in operation the hammer will not fall until the stretcher has performed its work; and I find it convenient and advantageous to magnetize the hammering-face of the hammer, so that by applying the tack thereto it will be held by

it, and thus as it falls driven into the carpet and floor.

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

1. The combination, in one machine, of a stretcher, *w*, and hammer *o*, arranged and operating with regard to each other substantially in the manner described, and for the purposes specified.

2. The arrangement of the stretcher *w*, hammer *o*, with the intermediate parts or devices connecting them with a common lever-handle, *g*, substantially as and for the purpose set forth.

The above specification of my invention signed by me this 3d day of October, 1865.

F. M. OSBORN.

Witnesses:

ALBERT W. BROWN,

A. C. GALLAHUE.