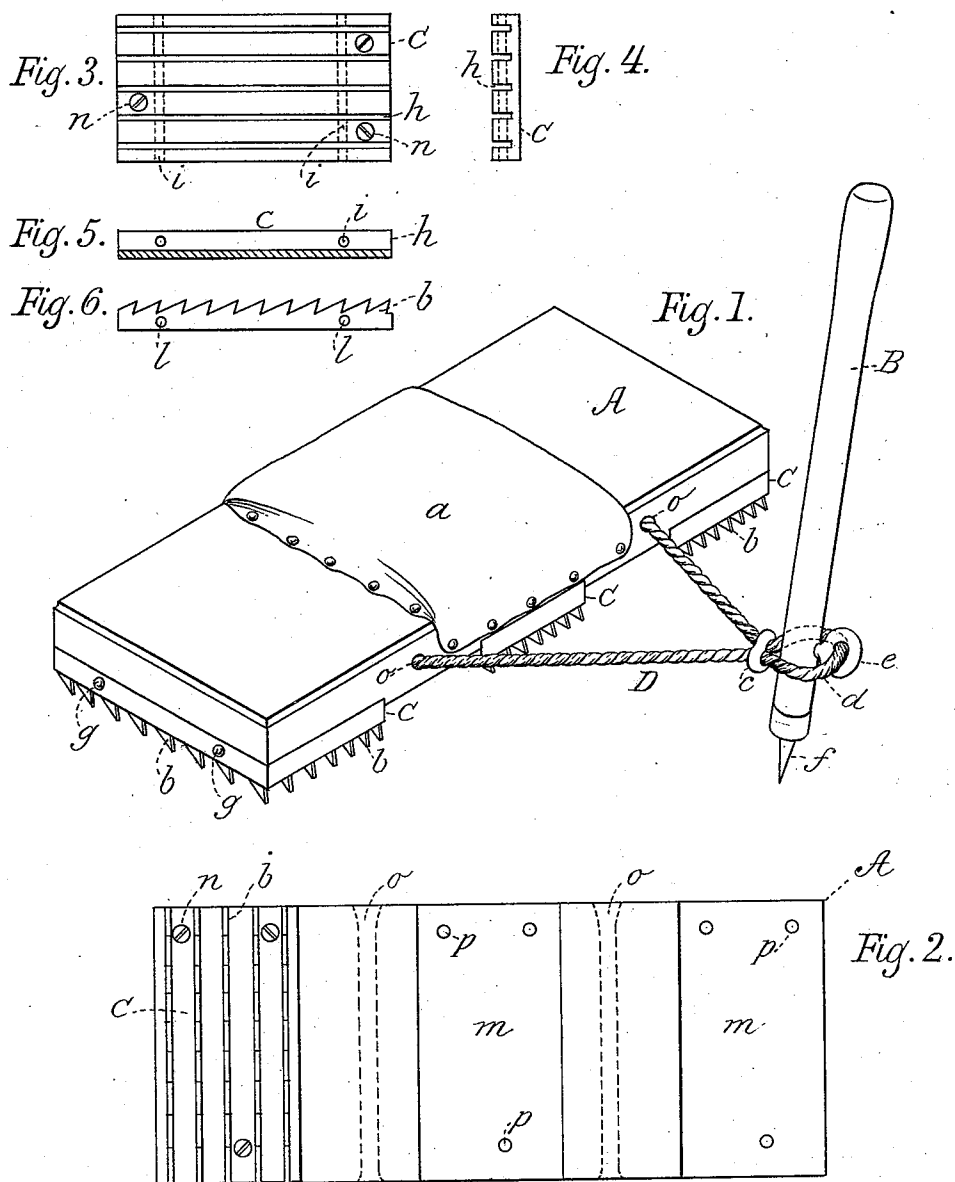


(No Model.)

R. & J. INGAL.
CARPET STRETCHER.

No. 466,418.

Patented Jan. 5, 1892.



Witnesses:

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UNITED STATES PATENT OFFICE.

ROBERT INGAL AND JOSEPH INGAL, OF CHICAGO, ILLINOIS.

CARPET-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 466,418, dated January 5, 1892.

Application filed November 29, 1890. Serial No. 372,986. (No model.)

To all whom it may concern:

Be it known that we, ROBERT INGAL and JOSEPH INGAL, citizens of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Carpet-Stretchers, of which the following is a description, reference being had to the accompanying drawings, the same forming part of this specification.

Our improved article, intended for manufacturing, consists of an implement for carpet-stretching, composed of a wooden block in connection with detachable plates, the same provided each with a series of removable inserted serrated strips of metal, and embraces an auxiliary pole or handle adjustable to the strain in connection with the movable block and instrumental to force the ends of a carpet close to the floor-molding for fastening.

Referring to the drawings, Figure 1 represents a perspective view of the carpet-stretcher, the handle in position for drawing the block to force the end of a carpet toward the floor-molding. Fig. 2 is a bottom view of the block, showing the recessed portions intended to bear the brush-plates, Figs. 3, 4, and 5 representing in top, end, and sectional side view one of the plates; and Fig. 6 is one of the serrated metal strips to be connected with the brush-plates.

Our improved carpet-stretcher, as shown in Fig. 1 of the drawings, consists of a rectangular wooden block A, mounted on its upper surface at its center with a cushion *a* to be knelt on while the carpet is being stretched and held in such stretched condition for being fastened. The under side of the block is provided with transverse recessed rectangular spaces *m m*, parallel with each other and of equal size and provided with screw-holes *p p*, the said spaces being adapted to receive fitting grooved plates C C. These plates are made of suitable material and are each provided with a series of equally-extending longitudinal grooves *h h* and transverse holes *i i* through the body of the plates. The said grooved plates are provided with serrated metal strips *b b*, the same having holes *l l*, which coincide with the holes *i i* in the plates, the strips being fittingly inserted into the aforesaid grooves *h h* and fastened therein

with pins *g g*, passing through the coinciding apertures *i i* of the plate and *l l* of the strips. In the event of the strips becoming damaged they can be removed by withdrawing the pins and new ones inserted. The grooved plates are fastened into the recessed spaces *m m* of the block A by means of screws *n n*, the same fitting the screw-holes *p p*, and, when desired, the plates can be readily removed, if it is desired to repair the same.

The stretcher is provided with a suitable handle B for operating the same, and it consists of a plain stout stick provided at its lower end with a metallic penetrating-spur *f* and with a rearwardly-applied eye-screw *e*, secured at a right angle to the handle, the said handle being secured to the stretching-block by means of a strong wire-rope bail D, which passes through the eye-screw of the handle and is looped around the handle, clasped by the double eyed or passaged clasp *c*, and its ends diverged from each other and passed through the channels *o* to the rear of the block and held by knots tied in their ends and fitted in the rear termini of said channels, which channels are on the same horizontal plane with the screw-eye *e* on the handle, so that when the handle is pushed forward away from the stretcher the stretching-block A will be drawn evenly and squarely on the floor and prevented from rising at its forward end.

When operating the device, the handle B is used as a lever, the penetrating-point *f* being driven into the floor and the upper end of the handle being pushed forward away from the stretching-block, thereby drawing the stretching-block, which is embedded by means of its serrated teeth in the carpet, forward close to the wall in a position for tacking down the end of the carpet while it is held in this stretched condition. The rope bail D, which is looped around the handle, passing through the eye-screw *e* and the loosely-fitting clasp *c*, adapts itself to the varying strains brought upon it by the movement of the handle, causing, consequently, proper movement of the block, and as the ends of the rope or wire are fastened to the block the lever-handle draws the block with an equally-divided force into the required position.

What we claim as our invention is—

1. The carpet-stretcher, as herein described,

comprising the handle B, having a penetrating-point *f* and operating as a lever, a bail D, a block A, having separated rectangular recesses *m* and screw-holes on their under side, 5 plates C, fitting the recesses *m* in block A, and flanged, grooved, and perforated and removably secured by screws, and the serrated and perforated strips *b*, fitted in the grooves of the removable plates and secured by pins, 10 substantially as described.

2. The carpet-stretcher herein described, comprising the handle B, having a penetrating-garniture *f* and operating as a lever, a block A, having spaced recesses *m*, screw- 15 holes *p*, flanged, grooved, and perforated plates C, serrated and perforated strips *b*, confined by pins *i*, and passages *o*, said passages *o* being in the same horizontal plane with the eye-screw *e* of the handle, whereby the stretch-

ing-block can be drawn squarely and evenly 20 over the floor, and the rope bail D, having its ends passed through the eye-screw *e* of the handle, looped around the handle, clasped by the double eyed or passaged clasp *c*, diverged from each other, and passed through the chan- 25 nels *o* to the rear of the block and held by knots tied in their ends and fitted in the rear termini of said channels, substantially as described.

In testimony whereof we have hereunto set 30 our hands in the presence of two subscribing witnesses.

ROBERT INGAL.
JOSEPH INGAL.

Attest:

FRED. ARTÓS,
P. THIELE.