

(No Model.)

M. KRICKL.
STAIR CARPET FASTENER.

No. 252,680.

Patented Jan. 24, 1882.

Fig. 1.

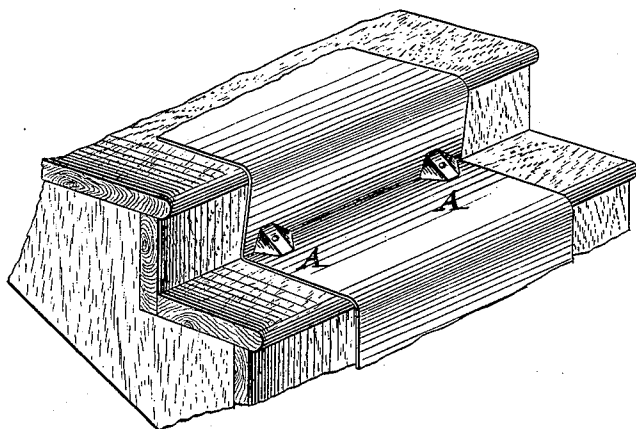


Fig. 2.

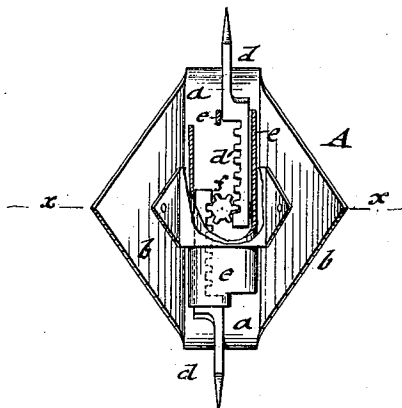
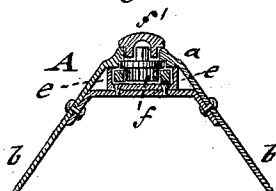


Fig. 3.



WITNESSES:

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STAIR-CARPET FASTENER.

SPECIFICATION forming part of Letters Patent No. 252,680, dated January 24, 1882.

Application filed December 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, MAURICE KRICKL, of the city, county, and State of New York, have invented certain new and useful Improvements in Stair-Carpet Fasteners, of which the following is a specification.

This invention has reference to an improved stair-carpet fastener by which the carpet may be quickly fastened to the steps and risers, and also be readily removed for cleaning or other purposes; and the invention consists of a corner-plate having inclined side portions and slide-pins, which are guided at the under side of the angle-plate and adapted to be thrown outside of the plate in line with the longitudinal axis of the same, so as to pierce the carpet and take hold of the riser and step, respectively. The sliding pins are actuated by a key applied to the square end of a shaft, a pinion of which engages the toothed shanks of the pins for setting them in motion in either direction.

In the accompanying drawings, Figure 1 represents a perspective view of my improved stair-carpet fastener, shown as applied in position. Fig. 2 is a rear view of the fastener, parts being broken away; and Fig. 3 is a detail vertical transverse section on line $x x$, Fig. 2.

Similar letters of reference indicate corresponding parts.

The invention is more especially designed as an improvement on the well-known corner-plates now in use for fastening stair-carpets to the riser and step, it being made with a view to facilitate the attaching and removing of the corner-plates, so as to facilitate the laying and removing of the carpet. This I accomplish by arranging, in connection with the corner-plate, sliding pins, which may be forced beyond the corner-plate and drawn back below the same by exterior means, so as to apply the corner-plate to the carpet and stairs or remove the same therefrom.

The corner-plate A is made of angular shape, having a rectangular center portion, a , and inclined triangular side portions, b . The side portions, b , are made in the shape of a right-angled isosceles triangle, so that the corner-plate fits accurately into the angle formed between the riser and step. At the under side of the middle portion, a , are arranged two sliding pins, d , with pointed ends, which pins are guided in a casing, their shanks d' be-

ing rack-shaped and engaged by a center pinion, f , so that the points are moved simultaneously in opposite direction to each other. The sliding pins d are stopped in either direction when the revolution of the pinion is completed. The shaft of the pinion extends through the middle portion, a , of the corner-plate, A, and is provided at the outside with a square end, upon which the actuating-key is placed by which the pins are actuated. When the corner-plate A is placed in position on the carpet into the angle formed by riser and step, and the key placed in position on the square end of the pinion-shaft and then turned around its axis, the points are forced in outward direction beyond the edges of the corner-plate, so as to pierce the carpet, enter the riser and step, and attach the carpet securely thereto. For detaching the fastener, the pinion-shaft is turned in opposite direction by the key, and thereby the points drawn back to the outside of the corner-plate, so that the fastener and the carpet may be removed.

The end of the pinion-shaft may be covered, if desired, by means of a rosette-shaped screw-cap, f' , so as to place it out of sight and impart to the fastener a more ornamental appearance.

In place of the pinion and the rack-shaped shanks of the slide-pins, any other equivalent actuating mechanism may be employed, as I do not confine myself to that shown and described.

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

1. The combination, with an angular corner-plate, of sliding and pointed pins and mechanism whereby the same are forced in line with the axis of the fastener to the outside of the same, substantially as and for the purpose set forth.

2. The combination of an angular corner-plate, A, having inclined triangular corner portions b , with sliding and pointed pins d , guided at the under side of the corner-plate, and actuated by a center pinion intermeshing with rack-shaped shanks of the pins, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

Witnesses: MAURICE KRICKL.
PAUL GOEPEL,
CARL KARP.