

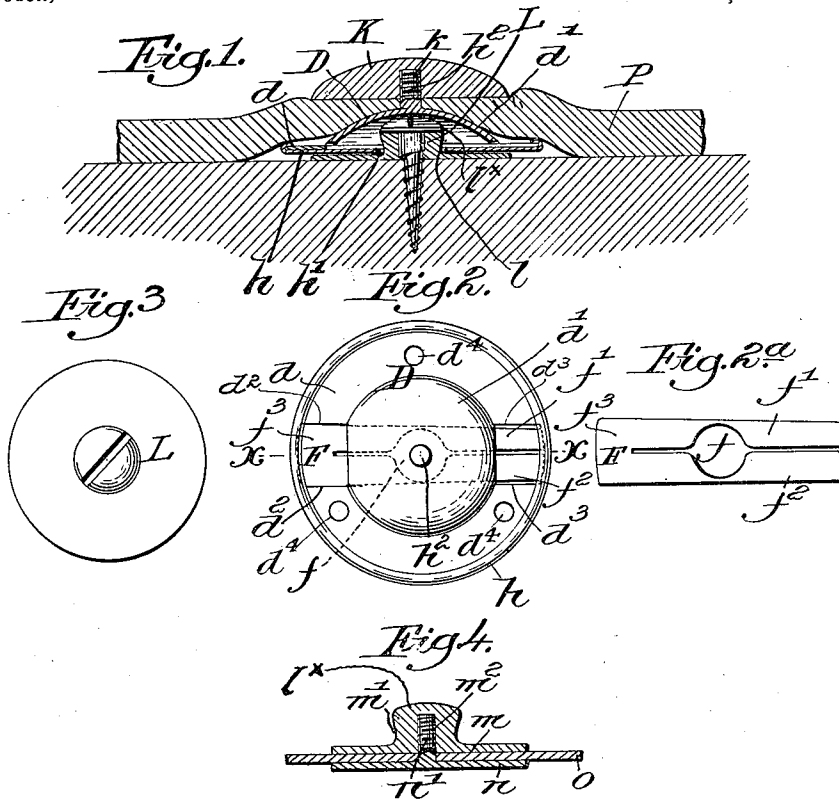
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J. L. KINGSTON.
FASTENER.

(Application filed Mar. 2, 1897.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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FASTENER.

SPECIFICATION forming part of Letters Patent No. 625,567, dated May 23, 1899.

Application filed March 2, 1897. Serial No. 625,735. (No model.)

To all whom it may concern:

Be it known that I, JAMES L. KINGSTON, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Fasteners, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

My invention has for its prime object the production of strong, convenient, and compact means for removably attaching rugs, carpet, and other floor-coverings to floors and the like, and the various features of the invention will be fully illustrated and described in the drawings and specification and set forth in the claims.

In the accompanying drawings, Figure 1 is a vertical sectional view of my invention as it may be embodied in a rug-fastener shown in place. Fig. 2 is a plan view of the fastener proper, Fig. 2^a being a view in detail of the form of spring-clip shown in Fig. 1. Fig. 3 is a plan view of the stud to which in Fig. 1 the fastener is shown as applied. Fig. 4 illustrates a form of stud member adapted to be used when two layers of fabric are to be united, it being attached to one layer in position to cooperate with a housing member on the other layer, as shown in Fig. 1.

In Figs. 1 to 3, inclusive, I have shown the fastener as built up from sheet material and consisting, primarily, of an upper member centrally swaged or spun or otherwise raised above the plane *d* of attachment in which lies the flange or web-like portion of the blank of metal or other material from which it is made to form the "housing" *d'*, into which the head of the fastening-stud *L* may enter.

To engage the fastening-stud and hold the fastener firmly thereto, I have provided a clip made of a flat spring *F*, (best seen in Figs. 2 and 2^a), split throughout the greater part of its length and having the split enlarged at about the middle to form an attaching-aperture *f*, adapted to receive the head of the stud, the legs of the spring *f'* and *f''* coming into gripping engagement with the neck of the fastening-stud *L*, which preferably has, as illustrated, a groove *l*, into which the said legs enter, so that the head *l'* of the stud prevents accidental displacement of the spring-clip therefrom. As one suitable and strong

means for securing this spring-clip to the upper member I have shown the flat portion or web *d* of the latter as recessed in the instance illustrated by cutting material away at *d''* to form a seat for the clip *F*, the head *f''* whereof preferably fits very snugly, while to receive the legs *f'* *f''* a cut-away recess *d'''* is provided sufficiently wide to permit some little play of the legs *f'* *f''*, though not enough to allow breakage of the spring by excessive separation. The depth of the recess *d'''* will depend upon the length of the legs *f'* *f''*, which need not extend across the entire breadth of the web. As an additional means for holding the clip *F* within its seat I have made use of a lower member, which consists of an annular plate *h*, extending entirely across the lower surface of the upper member *d*, to which it may be affixed by crimping the edge of one over that of the other, as illustrated, or in any other suitable and desired manner. This plate has a central aperture *h'* opposite the aperture *f* of the clip and approximately of the same size as the latter, and it not only serves to hold the clip in place, but also to protect the latter by insuring proper relative position of the fastener and stud before the fastener can be forced down upon the stud.

It is often desirable to change the position of this class of device on the fabric, &c., to which it is secured, and while fasteners are in existence which are merely sewed to the fabric and may therefore after removing the stitches be secured to another part of the fabric in a similar manner, and while my present fastener offers no obstacle to the use of such securing means, if it is desired to perforate its members slightly, as indicated at *d''*, Fig. 2, I have shown securing means which I believe to be novel and which afford means to readily and at any time enable removal by the fingers of the fastener from one location to another without the necessity for any tools not found in the fastener itself. In the form of removable securing means which I have illustrated the housing is provided with a post *h''*, which may be integral with the material of the housing, as shown, or otherwise adapted thereto. This post or projection is preferably threaded, and to cooperate with it I have provided a nut or similar device *K*, shown as having a threaded central recess *k*

to receive and engage the threaded post h^2 . In applying the fastener to the fabric P the post h^2 is forced up between the fibers of the fabric at the desired spot until the end appears above the fabric, when the nut or equivalent device K is screwed or fastened down upon it, the material of the fabric in the region of the device being clamped between the housing member and its securing means. Obviously upon unscrewing the nut the operator can relocate the fastener where desired.

While I have illustrated the housing d' as rounded, it is within the scope of my invention to give it any convenient form, and instead of providing it with a post h^2 it may be furnished with a threaded aperture and the device K be provided with a threaded post to enter the same.

It will be noted that the threaded opening in the nut, as shown in Fig. 1, which receives the threaded post h^2 extends but partially through the nut, so as to leave the top of the latter smooth and free from depressions that would tend to collect dirt and be a general nuisance.

As a convenient form of stud member I have shown at L an annular member adapted to receive in its central aperture a securing-screw or the like means, by which it may be fastened to the floor, &c., and having a neck contracted as described at l ; but, however, my fastener may be used with any suitable form of fastening-stud.

Inasmuch as it is often equally desirable that not only the fastener, but the fastening-stud, may be adjustable upon the fabric, particularly where rugs are used upon carpets, use may be made of any suitable stud adapted to be attached removably to the fabric. One form of such a removable stud I have illustrated in Fig. 4, where the upper member m has a grooved head m' and a central threaded recess m^2 , and the lower plate n has a threaded post n' to pass through the fabric o and enter into engagement with the threaded recess m^2 , whereby the fastening-stud is attached to the fabric, the latter being clamped between the plates.

I do not restrict my invention to the exact contour shown, since the same may be varied considerably without departing from the spirit of my invention.

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

1. A carpet or rug fastening device, consisting of a stud member adapted to be fastened to the floor or support, a housing provided with a spring-clip adapted to engage said stud member said housing being provided with a vertically-projecting post adapted to pass through the carpet or rug to be fastened, and a holding member detachably arranged upon said post for detachably holding the carpet or rug between it and said housing.

2. A carpet or rug fastening device, consist-

ing of a stud member adapted to be fastened to the floor or support, a housing provided with a spring-clip adapted to engage said stud member said housing being provided with a vertically-projecting threaded post adapted to pass through the carpet or rug to be fastened, and a nut threaded upon said post for detachably holding the carpet or rug between it and said housing.

3. A carpet or rug fastening device, consisting of a stud member adapted to be fastened to the floor or support, a housing provided with a spring-clip adapted to engage said stud member said housing being provided with a vertically-projecting threaded post adapted to pass through the carpet or rug to be fastened, and a nut partially threaded upon said threaded post for detachably holding the carpet or rug between it and said housing, the post receiving the threaded opening in said nut and extending but partially through the latter so as to leave the top of the nut smooth and free from depressions, for the purpose specified.

4. A carpet or rug fastener comprising a spring-clip F of flat metal having a head f^3 , and legs or gripping members f' , f^2 , apertured at f to receive a suitable fastening-stud or the like; and housing or supporting means for said clip, said means comprising a lower plate apertured to permit entrance of said fastening-stud, and an upper housing member having a central portion raised to clear said fastening-stud, and an integral flanged portion recessed to receive said clip; said plate and upper housing member being secured together with said clip embraced between them; and means by which said fastener may be attached to a carpet or rug.

5. A carpet or rug fastener comprising a spring-clip F of flat metal having a head f^3 and legs or gripping members f' , f^2 , apertured at f to receive a suitable fastening-stud or the like; and housing or supporting means for said clip, said means comprising a lower plate apertured to permit entrance of said fastening-stud, and an upper housing member having a central portion raised to clear said fastening-stud, and an integral flanged portion recessed to receive said clip; said plate and upper housing member being secured together with said clip embraced between them; and means by which said fastener may be attached to a carpet or rug; said means comprising a vertically-projecting post on said housing member and adapted to pass through the carpet or rug to be fastened, and a holding member arranged detachably upon said post for holding detachably a carpet or rug between it and said housing.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES L. KINGSTON.

Witnesses:

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