

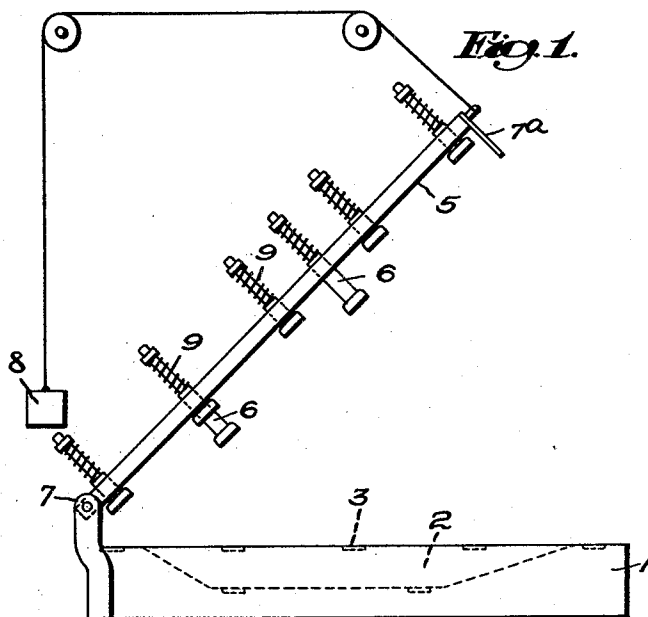
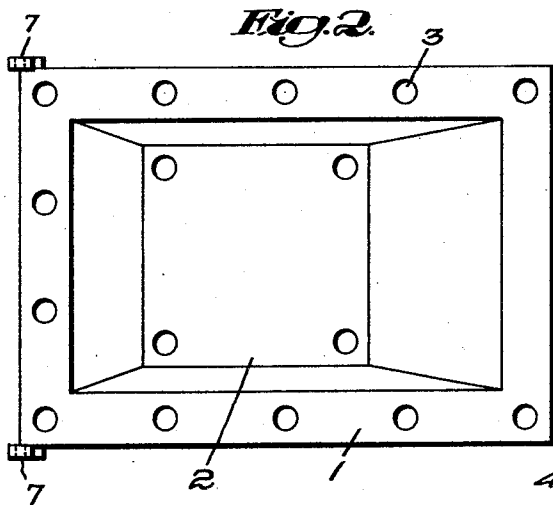
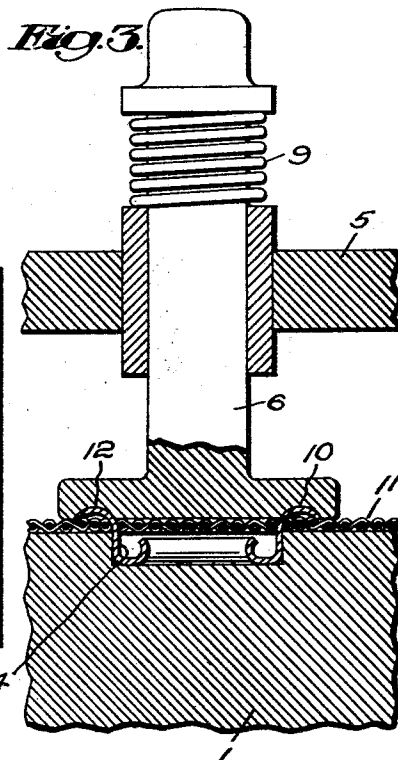
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FASTENER SETTING DEVICE

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FASTENER SETTING DEVICE

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My invention aims to provide improvements in fastener setting devices.

In the drawing which illustrates a preferred embodiment of my invention:—

5 Figure 1 is a side elevation of a device for attaching carpet fasteners to a carpet in a predetermined relation;

10 Fig. 2 is a plan view of the template or table shown in Figure 1; and

Fig. 3 is an enlarged vertical cross-section of a portion of the device taken through one of the setting members and showing a fastener as it appears when attached to a carpet.

15 Referring to the particular embodiment of my invention illustrated by the drawing, I have shown a device which is particularly, though not exclusively, adapted for use in connection with attaching carpet fasteners and the like to carpets and similar articles.

20 It is a purpose of my invention to provide a device whereby I may attach a number of fasteners to a carpet or the like in a predetermined relation so that any number of carpets may be provided with the same number of fastening members spaced in an identical manner. In connection with automobile body manufacture it is desirable to secure a carpet, or carpets, to the floor of the motor vehicle body and, therefore, since the

30 fastening members attached to the floor of each vehicle body are uniformly arranged, it is desirable to manufacture a number of carpets having the corresponding uniform arrangement of the fastener members attached to the carpets.

35 Another feature of my device is the provision of a template or table which resembles the formation of the floor to which a carpet is to be attached. Therefore, I have

40 illustrated in Figs. 1 and 2 a template having a depressed area of substantial size corresponding with a depression formed in the floor of the motor vehicle body. This template or table is adapted to receive the carpet and have it conform therewith without

45 wrinkling so that the fasteners may be attached at different points and at different planes, somewhat as illustrated. The carpet is preformed to fit the contour of the template including the depression therein. In

the specific embodiment of my device illustrated I have shown a template 1 having a depressed or recessed area 2 and a series of recesses or bores 3 to receive snap fastener members 4, as shown in Fig. 3. In Figs. 1 55 and 2 I have shown some of the bores 3 located adjacent to the periphery of the template 1, while some of them are located in the bottom of the depression 2. While in the particular embodiment of my invention 60 illustrated I have shown the fastener-receiving bores 3 as mere holes drilled into the template 1, it should be understood that, if desirable, to use different types of fastener members any suitable die members may be 65 located in the bores 3.

In Fig. 1 I have shown associated with the template 1 a setting die holding frame 5 in which I have mounted a number of movable setting dies 6 (Figs. 1 and 3). In order to 70 expedite attachment of the fasteners to a carpet or the like, I have provided in the frame 5 an equal number of setting dies 6 for co-operation with the fastener-holding bores 3 so that all of the fasteners may be attached 75 by depressing the die members 6 one at a time or collectively. It will be noted (Fig. 1) that in the normal position of the device the die members 6, which cooperate with the fastener-receiving bores 3 in the bottom of 80 the recessed area 2, extend downwardly further than the other die members so that each die member requires the same amount of movement to set the fastener members. For convenience I have shown the frame member 85 5 hinged at one end by hinges 7 (Figs. 1 and 2) to the template 1 and normally having an opposite end pulled upwardly by the counterweight 8, as shown in Fig. 1. With this arrangement it is a relatively simple 90 matter to insert fasteners in all of the bores 3 and then place a carpet over the template and press the carpet into the depression 2. Thereafter the die holding frame 5 may be 95 pulled downwardly against the action of the counterweight 8 until it is parallel with the carpet and the template. It is, of course, desirable to permit the frame 5 to reach a position parallel with the template 1 before the fastener members are set and therefore 100

the hinges 7 are arranged so that the pivoted end of the frame 5 is a substantial distance above the upper face of the template 1. I have also provided a stop member 7^a (Fig. 1) at the opposite end of the supporting member 5 which engages the upper face of the template and cooperates with the hinges to secure the parallel alignment. The fasteners may thereafter be set by depressing all of the die members 6 against the action of the springs 9 (Fig. 3) by any suitable means in a single operation, or each die member may be struck a blow individually by a hammer to force it against the carpet and thereby upset the attaching means of the fastener members.

In the particular fastener members 4 illustrated in the drawing (Fig. 3), I have shown carpet fasteners having a number of attaching prongs 10 which are adapted to pass through the carpet 11 and be bent outwardly and downwardly by the anvil means 12 provided by the setting members 6.

Since the template is the same shape as the floor to which a particular carpet is to be attached, it will be readily understood by those skilled in the art that my device easily and quickly attaches the fasteners in the proper positions upon the underside of the carpet so that when the carpet is attached to the floor the sockets will be engaged with the fastener studs arranged in a predetermined manner in the floor.

While I have illustrated and described a preferred embodiment of my invention, I do not wish to be limited thereby, because the scope of my invention is best defined by the following claims.

What is claimed:

1. A device for setting snap fastener members to the underside of a carpet and like material comprising, in combination, a template having a number of fastener-holding recesses, a fastener setting die supporting frame associated with said template and carrying independently operable dies corresponding with the fastener-holding recesses whereby when a carpet is inserted between the template and the die supporting frame the dies carried thereby may be actuated to set the fasteners to the carpet and means provided partly by the template and partly by the die-supporting frame to maintain proper relation between those parts for proper registry of the dies and fastener-receiving recesses.

2. A device for setting snap fastener members to the underside of a carpet and like material comprising, in combination, a template having a number of fastener-receiving recesses, a fastener setting die supporting frame associated with said template and carrying dies corresponding with the fastener-receiving recesses whereby when a carpet is inserted between the template and the die supporting frame the dies carried thereby may be actuated to set the fasteners to the carpet and hinge-like means cooperating between the template and the die-carrying frame to maintain proper relation between those parts for proper registry of the dies and fastener-receiving recesses.

3. A device for setting snap fastener members to the underside of a carpet and like material comprising, in combination, a template having a number of fastener-receiving recesses, a fastener setting die supporting frame associated with said template and carrying dies corresponding with the fastener-receiving recesses whereby when a carpet is inserted between the template and the die supporting frame the dies carried thereby may be actuated to set the fasteners to the carpet, hinge-like means cooperating between the template and the die-carrying frame to maintain proper relation between those parts for proper registry of the dies and fastener-receiving recesses, and a counterweight for raising that end of said die supporting frame opposite the hinged end, to permit insertion and removal of the carpet and fasteners.

4. A device for setting snap fastener members to the underside of a carpet and like material to be attached to a floor or the like having a depression of substantial size, said device comprising, in combination, a template having a depression therein, said template having a number of fastener-receiving recesses some of which are located in the bottom of the depression thereby being in a plane below the plane of the others and a fastener-setting die supporting frame associated with said template and carrying dies corresponding with the fastener-receiving recesses whereby when a carpet is inserted between the template and the die-supporting frame the dies carried thereby may be actuated to set the fasteners to the carpet.

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