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DEVICE FOR SECURING NAME PLATES AND THE LIKE.

APPLICATION FILED MAR. 13, 1916.

1,286,199. Patented Dec. 3, 1918.

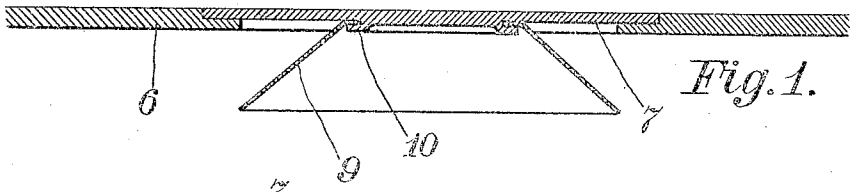


Fig. 1.

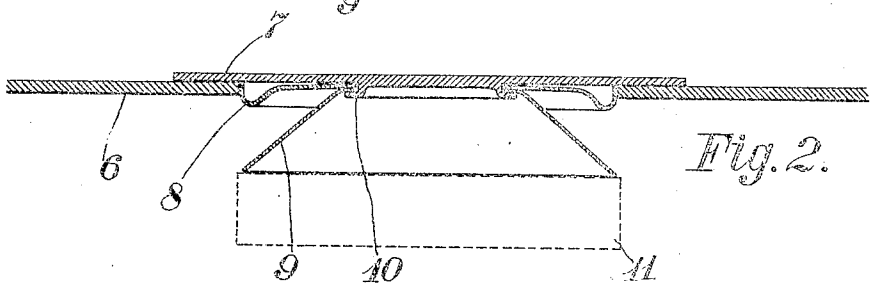


Fig. 2.

Fig. 3.

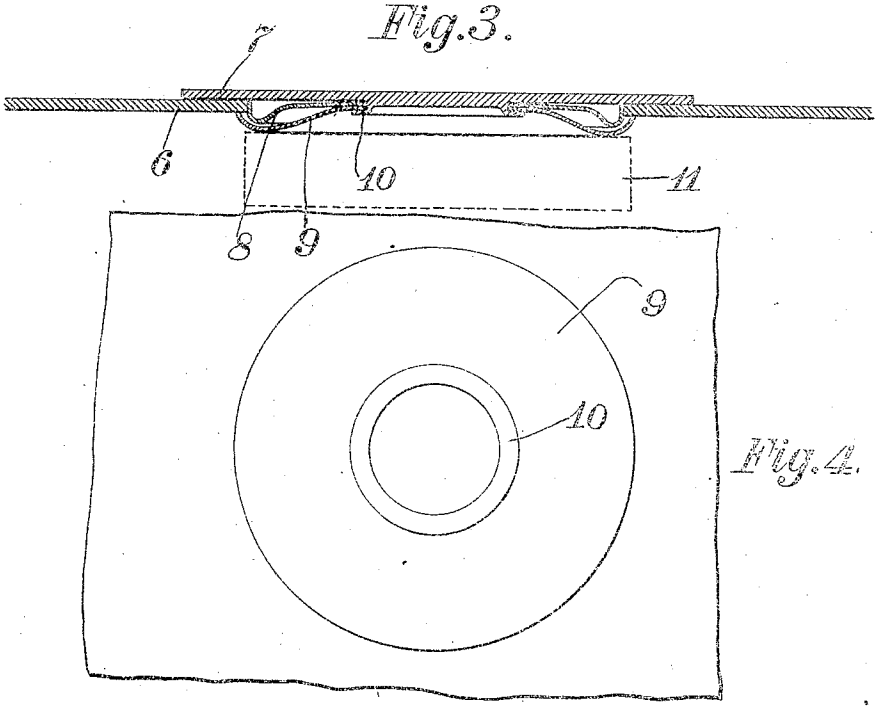


Fig. 4.



Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

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DEVICE FOR SECURING NAME-PLATES AND THE LIKE.

1,286,199. Specification of Letters Patent. Patented Dec. 3, 1918.

Application filed March 13, 1916. Serial No. 83,986.

To all whom it may concern:

Be it known that I, DEMAS L. AULD, citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Devices for Securing Name-Plates and the like, of which the following is a specification.

The object of this invention is to provide improved means whereby a name plate or other object can be secured with great firmness to another body so as to prevent its movement in any direction or its removal without a virtual destruction of the device.

The invention is embodied in the construction herein shown and described and then finally claimed.

In the accompanying drawing forming part hereof—

Figure 1 is a sectional view of a metal wall having a rabbeted aperture to receive the name plate, the name plate being located over the aperture, but with the securing member not pressed into securing position.

Fig. 2 is a similar view of a similar name plate applied to an unrabbeted aperture but with a positioning or centering member applied to the name plate so as to insure the proper engagement of the securing member with the margin of the aperture at the rear or lower side of the wall to which the name plate is applied.

Fig. 3 shows the parts of Fig. 2 with the securing member bent up into engaging position.

Fig. 4 is a plan view of the lower side of Fig. 3.

Fig. 5 is a detail on a larger scale showing how the rim of the centering member can be formed when it is desired that the centering member shall also serve as a sealing member.

In the views 6 designates the wall which has an aperture to receive the name plate. 7 designates the name plate; 8 the locating, centering or sealing member and 9 the name plate securing member. The centering and securing members are rings of sheet metal having central openings of equal diameter to fit upon a boss 10 on the rear or lower side of the name plate, said boss being spun over the margin of the central opening of the securing member to attach it as well as the centering or locating member to the name plate. The securing member is first struck out of flat sheet metal into frusto-conical or petticoat form but of an outside diameter just a trifle less than that of the aperture of the wall. The ring constituting the centering or sealing device is annularly bent down and then up to form a wall or rim that neatly fits in the aperture of the wall. When the name plate thus equipped is placed in the aperture or as seen in Fig. 2 the petticoat 8 is properly centered and upon the application of pressure thereto as with a die or pressure block 11 (shown by broken lines Figs. 2 and 3) the rim of the petticoat is turned over into contact at its edge with the rear or lower margin of the aperture. In applying pressure with the die or block 11 a suitable support is, of course, provided at the face of the name plate. The advantage of this construction is that the petticoat has a large reach and bears with more direct pressure and more firmly at its rim upon the wall of the structure to which the name plate is secured so that when the aperture is circular the name plate cannot be turned out of its proper position. Nor can it be withdrawn from its place except by a virtual destruction of one or more of the members.

When the centering ring is also to serve as a sealing device the upturned flange or rim of that ring can be made slightly tapering as seen in Fig. 5 so as to form a wedge that can be forced with a tight fit into the aperture after the manner of corking a bottle, the petticoat being subsequently pressed into position as before described. When forced into sealing position such member would be somewhat compressed at its rim and appear substantially as in Fig. 3.

In Fig. 1 no added centering device is needed because the annular rabbet 12 serves to properly center the parts.

The forms of the parts can be changed without departing from the gist of the invention as claimed.

What I claim is:

1. The combination with an object to be secured to one side of another object provided with an opening, of a sheet metal securing member of frusto-conical form attached to said first named object adapted to be bent to cause its rim to engage the opposite side of the second named object, and a guiding device for properly locating the object to be secured including a spring rim

also attached to the first named object, substantially as described.

2. The combination with an object to be secured to one side of another object provided with an opening, of a sheet metal securing member of frusto-conical form attached to said first named object adapted to be bent to cause its rim to engage the opposite side of the second named object and a sealing device including a spring rim also attached to the first named object and adapted to fit in the aforesaid opening.

DEMAS L. AULD.