Jan. 12, 1926. 1,569,486

G. S. HARDIN

DESK ATTACHMENT

Filed April 11, 1925

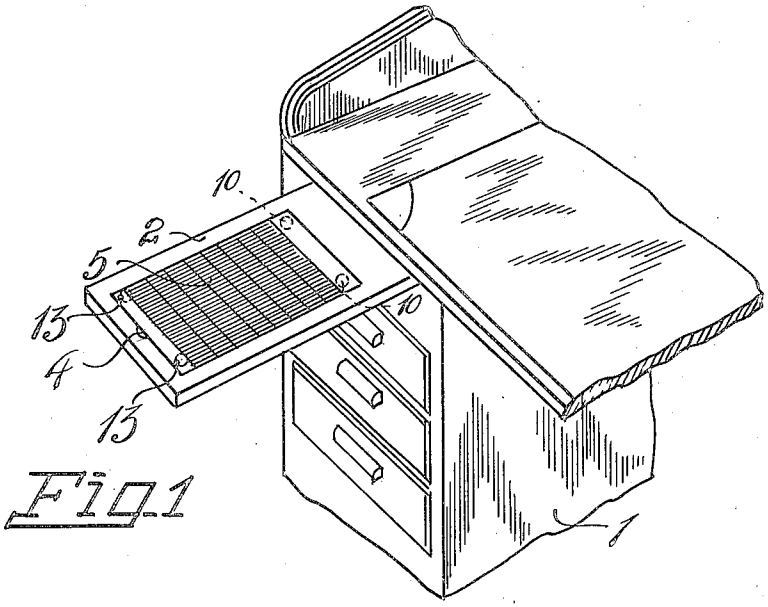


Fig. 1

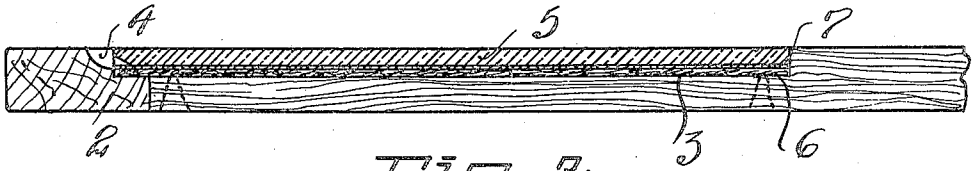


Fig. 2

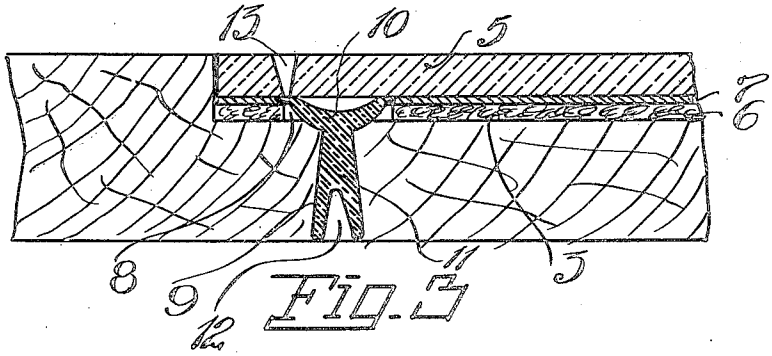


Fig. 3

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UNITED STATES PATENT OFFICE.

GLENN S. HARDIN, OF SPOKANE, WASHINGTON, ASSIGNOR OF ONE-HALF TO CHARLES E. JOHNSON, OF SPOKANE, WASHINGTON.

DESK ATTACHMENT.

Application filed April 11, 1925. Serial No. 22,326.

To all whom it may concern:

Be it known that I, GLENN S. HARDIN, a citizen of the United States, residing at Spokane, in Spokane County and State of Washington, have invented certain new and useful Improvements in Desk Attachments, of which the following is a specification.

My present invention relates to an improved desk attachment for use with office furniture, as for instance a slide leaf of a desk.

The primary object of the invention is the provision of means for retaining and displaying memoranda, data, and other similar subjects matter in a convenient place where access may readily be had to it for reference purposes. By the use of the physical embodiment of my invention the data is retained and displayed in the slide leaf or other similar device in such manner that the transparent panel or glass plate used may with facility be withdrawn for the purpose of changing or withdrawing the sheet or sheets containing the data etc. when required, and with equal facility the plate may be replaced and retained in normal position. In carrying out my invention I utilize a minimum number of parts thus simplifying the cost of production and construction of the device and provide an efficient means for accomplishing the purposes of my invention.

The invention consists essentially in the novel combinations and arrangements of parts involving the use of a glass plate or panel of transparent material and means for retaining the plate in place in such manner as to effectually accomplish the purposes of the transparent plate, and to permit its ready removal and replacement when desired.

In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention wherein the parts are combined and arranged in accordance with one mode I have so far devised for the practical application of the principles of my invention.

Figure 1 is a perspective view showing one corner of a desk of well known type having the device of my invention applied to the slide leaf thereof.

Figure 2 is an enlarged longitudinal sectional view of the desk leaf and memoranda device.

Figure 3 is a still further enlarged detail sectional view showing one of the corner vacuum cups for retaining the glass plate and a vent hole for releasing the vacuum.

In order that the general arrangement of parts may readily be understood I have shown a portion of a desk 1 with a slide leaf 2, of wood, but it will be understood that the leaf is an exemplifying structure and that the device may be used with metal or other furniture.

The leaf is countersunk or recessed as indicated at 3 on its top surface and the recess, which may be of desired shape is provided at one end with a notch 4 in one of its walls for access of the thumb or finger when lifting the glass plate 5.

The plate may be made of glass or other suitable material and of course conforms to the shape of the recess into which it is fitted with its upper face flush with the top of the leaf or panel 2.

The glass plate fits into its recess and rests upon a pad 6 and mat 7 the latter preferably of felt or similar material to form a cushion for the plate, and it will be understood that the sheets bearing the memoranda, data, or other subjects-matter are placed between the mat and glass plate for inspection through the transparent plate.

The pad and mat are preferably glued or otherwise permanently fixed in the bottom of the recessed panel, and a suitable number of holes, as four, one at each corner of the rectangular recess, are provided in the mat and pad as indicated at 8. Preferably these holes are circular and each hole is located above a central tapering opening 9 in the panel of wood leaf 2 as best seen in Figure 3.

These holes and openings are designed to receive and retain the retaining devices for the glass panel or plate 5 and vacuum cups 10 are provided for this purpose. The vacuum cups are preferably made of rubber and each cup is fashioned with a tapered post 11 having a cored out end 12. The rubber of course is resilient and elastic and the tapered, cored out post forms an expanding post for retaining the cup in its hole as indicated. The cored end of the post may be compressed and forced through the smaller upper end of the tapered opening, and as the cored out end is pushed to the

bottom of the tapered opening the post expands to effectively retain the cup in its hole, with the working face of the cup in position to receive and frictionally engage the lower face of the glass plate. The cups are of similar construction and the required number of cups are located at suitable points for properly retaining the glass plate in position.

The glass plate may be removed by breaking the vacuum between the cups and the glass plate, and for this purpose I provide the holes with vent openings as 13. One or more of these vents may be used as desired, and they are of a size and shape to receive a pointed instrument, as a lead pencil. The vent hole is in position relative to the hole 8 for the cup in order that the point of the pencil may depress the edge of the cup and permit air to enter the cup and thus release or break the vacuum. Then with the thumb or finger in the notch 4 of the panel the glass plate may be pried, or one of its ends lifted, from the recess in the panel. The vacuums in the several cups employed may be broken in this manner, or the remaining vacuums in the cups may be broken when the glass plate is tilted upwardly, thus releasing the plate so that it may be removed from its recess.

With the glass plate removed from the panel any desired changes may be made in the data sheets, and the glass panel replaced whereupon vacuums will be formed between the several cups and the lower face of the glass plate to retain the latter in normal position.

It will be apparent of course that the leaf or panel 2 may be withdrawn entirely from the desk and used as a portable article when desired.

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

1. The combination with a recessed panel and a transparent plate fitted therein, of retaining means for the plate comprising a vacuum cup and means for retaining the cup in the panel in engagement with the plate, and means for venting the cup for release of the plate.

2. The combination with a panel and a transparent plate, of retaining means for the plate comprising a vacuum cup and means for retaining the cup in the panel in engagement with the plate, and means for venting the cup for release of the plate.

3. The combination with a recessed panel having a pad therein and openings in said pad, of a transparent plate, vacuum cups located in said openings for engagement with the plate, means for venting said cups, and means for retaining the cups in the panel.

4. The combination with a recessed panel having tapering openings and a pad in the recessed panel having holes centered with said openings, of a glass plate in the recessed panel, vacuum cups in said holes for engagement with the glass plate, and said cups having expanding posts in said tapered openings.

5. The combination with a recessed panel having tapered holes and a pad in the recessed panel having concentric holes, of a glass plate having a vent opening, vacuum cups in said holes, tapered posts on said cups, and said posts having cored out expansible ends.

In testimony whereof I affix my signature.

GLENN S. HARDIN.