To all whom it may concern:

Be it known that I, LEONARD J. WOLF, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Desk-Shelves and the like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists in the novel features hereinafter described, reference being had to the accompanying drawings which illustrate several forms in which I have contemplated embodying my invention, selected by me for the purpose of illustration, and the said invention is fully disclosed in the following description and claims.

The object of my invention is to provide a horizontal supporting surface, such as a desk slide or shelf, a sliding shelf for tables, file cases, bookcases, and the like, or other supporting surface, with the means of containing removable and longitudinally movable memorandum sheets or reference sheets, or the like, which will not interfere with the use of the supporting surface for other purposes, for supporting books and papers, or for use as a writing support, etc., whereby the memorandum or reference sheets will be held in place for convenient access and reference, and whereby access may be had to any one of a number of superimposed sheets and whereby the supporting surface, if it be in the form of a slide, may be pushed in so as to conceal the memorandum or reference sheets from view, to insure privacy and at the same time hold them in a position of convenience for access thereto.

Referring to the drawings, Figure 1 is a perspective view of a desk slide embodying my invention. Fig. 2 represents a transverse vertical section on the line 2--2 of Fig. 1. Fig. 3 represents a longitudinal vertical section on the line 3--3 of Fig. 1. Fig. 4 is an enlarged detail sectional view illustrating one form of hinge connection for supporting one end of the transparent covering plate. Fig. 5 is a partial top plan view of a desk slide illustrating a slight modification of my invention. Fig. 6 is a perspective view illustrating a further modification. Fig. 7 represents a transverse vertical section on line 7--7 of Fig. 6. Fig. 8 is a partial perspective view illustrating another slight modification.

In the embodiment of my invention selected by me for purposes of illustration as shown in Figs. 1 to 4 inclusive, 1 represents a slide or shelf adapted to slide horizontally in a suitable recess 2, in a desk, table, or other article of furniture, 3. The upper face of the slide 1 is preferably provided with a recess 4 extending longitudinally thereof and open to and through one of the vertical edges of the slide, for example, the outer end face thereof, as shown in Figs. 1 and 3, and I also prefer to provide a shallow recess 5 surrounding three sides of the main recess for the purpose of receiving a flat retaining rim or frame 6, which is preferably rectangular and may be formed of any suitable material such as wood, metal, celluloid, or other composition or compressed fiber, etc., but I prefer to form it of extremely thin sheet metal. This retaining frame 6 fits into the exterior recess 5 and has its inner edges extending inwardly from the vertically disposed lateral walls of the main recess 4, said lateral walls being parallel to each other, and one member of the frame 6 extending across and above the open end of the recess, thus forming a slot, indicated at 4a, at the outer end of the slide 5 or support, the slot being of greater width than the distance between the two side members of the frame 6. This frame is secured in position in the recess 5 so that it is flush with the upper surface of the slide 1 and it may be secured by screws, as indicated in the drawings, or by cementing or gluing, or in any other desired manner, as preferred. The exterior transverse member of the slide 6 is preferably provided with a thumb notch or recess 7 and the end portion of the slide below the thumb notch is also recessed, as indicated at 8. Within the recess are one or preferably a plurality of memorandum or reference sheets, indicated at 10, of substantially the same width as the recess 4 and slot 4a, and of such length as to extend into said slot 4a so that their ends will be substantially flush with the end of the slide so that they may be readily grasped between the thumb and finger when the latter are inserted in the recess 7 and recess 8 respectively. It will be seen that these memorandum sheets, which are preferably thin stiff sheets of card material, can be drawn 110
out longitudinally through the slot 4° and replaced therethrough, and that the topmost sheet or sheets may be readily withdrawn to afford access to the sheet or surface beneath. These sheets may contain reference matter, such as price lists or compiled information of any desired kind, or they may be provided with blank surfaces or ruled surfaces for memorandums to be placed thereon from time to time. I find it convenient in some instances to provide ruled spaces having marginal indications corresponding to the days of the week, as indicated in Fig. 1, and it will be noted in that figure that the uppermost card or sheet has been drawn out to give access to the ruled spaces on the sheet below. Obviously memorandums may be made at suitable distances ahead by drawing out two or more of the sheets to give access to the lower sheet or sheets.

In the accompanying drawing it has been necessary to grossly exaggerate the thicknesses of the various materials in order to represent them in section, but the material of the frame 6 will preferably be of very thin sheet metal of sufficient rigidity, and a sufficient number of memorandum sheets will be placed in the recess 4 so as to bring the topmost sheet close up to the frame 6 which will provide a substantially flush upper surface for the slide or support 1 so that the use of the slide or support for any purpose is not affected, and it will also be seen that by pushing in the slide, the topmost memorandum or reference sheet will be completely concealed from view where that is desirable, while at the same time the memorandum or reference sheets are retained in a very convenient position, especially in the case of a desk or table shelf, for access to the topmost sheet or any sheet of the series.

In some instances, especially where the shelf or slide or other support is used as a writing table or support, and it is desired to have the top surface thereof perfectly flush, I provide a sheet of transparent material, indicated at 15, which is preferably hinged at one end to the frame 6, as indicated at 10, in any desired manner, so that when it lies horizontally, as in Fig. 3, it has its top surface flush with the top surface of the slide. For this purpose, the transparent sheet 15, which is preferably of celluloid or analogous material, is made of substantially the same thickness as the frame 6, and as a matter of fact, this transparent sheet 15 will ordinarily rest upon the topmost card or memorandum sheet 10, and be supported by said sheets, although it may be supported in any other way, if desired. This transparent sheet will also protect the writing or other characters on the memorandum or reference sheets 10 when it is in horizontal position, and it may be raised at any time to afford access to the topmost sheet or any superimposed sheet, if the topmost sheet or sheets, is or are drawn out for the purpose of making entries or erasures thereon, as indicated in Figs. 1, 2, and 3.

I prefer to provide the transparent sheet at one end with some means by which it can be easily lifted, as for example, with the finger notch 17 and the other end of the sheet is preferably provided with laterally extending studs or trunnions, indicated at 16° in Fig. 4, in any desired manner, which are capable of being inserted into and removed from notched or recessed hinge members 18°, see Fig. 4, so that the transparent sheet 15 can be inserted and removed as desired, although this is not essential. In Fig. 4 I have shown the notch member 16° in the form of an open spring clip secured to the rear transverse member of the frame 6, and I have been obliged to exaggerate materially the difference of the thickness of the various parts in this figure in order to make it clear, but this construction does not interfere with supporting the transparent sheet upon the topmost memorandum or reference card, as before described.

In some instances, I prefer to provide the memorandum or reference cards with index tabs or projections 19°, as indicated in Fig. 5, which project outwardly beyond the slot 4° and may be provided with indications, the said tabs being located in different positions transversely of the card on the several cards, so that any particular card or cards of the series may be seized by means of their connected tabs and drawn out.

In some instances I prefer to provide the frame with longitudinally disposed guides 1 by means of which the memorandum or reference sheets may be retained in conjunction with the frame, and which will serve to guide the movement of the cards or sheets in the use of the device. Thus, in Figs. 6 and 7 I have indicated a frame 6° provided with longitudinal guides 6° on its lower face to receive the cards or sheets, here indicated at 10°. The longitudinal guides 6° will also serve as a guide in marking the upper face 1° of the support or slide to indicate the width of the recess 4 to be formed therein, and by inserting the device in the recess 4 and marking along the exterior edges of the frame the width and location of the upper recess 5 may also be accurately determined.

In some instances I may prefer to provide supporting means for the transparent sheet or plate around its edges instead of permitting it to rest directly upon the reference or memorandum cards, and in Figs. 6 and 7 I have shown the frame 6° provided with a recess 6° in its upper face surrounding the opening within the frame to receive the transparent sheet, here indicated.
at 15°, and support it along its edges. The frame may also be provided with suitable means, as apertures, one of which is indicated at 16°, in Fig. 6, for the hinged pins or trunnions of the transparent sheet, or the transparent sheet may in some instances be permanently secured by cement or otherwise to the frame.

In some instances I find it advantageous to provide the cards or sheets with projecting tabs extending perpendicularly to the surfaces of the card and overlapping the adjacent cards. Such an arrangement is illustrated in Fig. 8 in which the cards 10 are each provided with a downwardly extending tab or projection 10°, the tab or projection of each card being located at a different point transversely of the cards and overlapping other portions of the edges of the cards beneath. These tabs or projections 10° may or may not be provided with index characters, as preferred. It will be observed that with this construction, if any one of the lower cards is drawn out, its outer edge will engage the tab or tabs 10° of the card or cards above the same and draw them out with it, so as to expose the card below. Thus, for example, in Fig. 8, if it is desired to inspect a memorandum on the lowermost card or sheet, or make an entry thereon, the operator will grasp the tab connected to the sheet immediately above, or in other words, the third tab counting from the left in the figure, and draw it out thereby drawing out the first, second, and third cards, and exposing the lowermost cards of the series. These tabs may be formed integral with the cards or other suitable material and attached thereto, as desired.

What I claim and desire to secure by Letters Patent is:—

1. A slide for desks, tables and other articles adapted to be inserted in a recess therein so as to conceal its upper face, said slide having a recess in said upper face provided with parallel side walls, and said slide having an open slot in an exterior vertical face in line with and communicating with said recess and lying beneath a marginal portion of said upper face, said slide having inwardly extending lip portions at the upper edges of the parallel walls of said recess, said recess being adapted to receive removable sheets or cards, whereby the uppermost sheet or card will be concealed when the slide is in its innermost position in the desk or other article, and whereby anyone of said sheets or cards may be moved longitudinally through said recess and slot, whether the slide is in its retracted or withdrawn position with respect to the desk, table or other article, and a sheet of transparent material extending across the top of said recess to form a writing support and having its upper surface substantially flush with the upper surface of the slide.

2. A slide for desks, tables and other articles adapted to be inserted in a recess therein so as to conceal its upper face, said slide having a recess in said upper face provided with parallel side walls, and said slide having an open slot in an exterior vertical face in line with and communicating with said recess and lying beneath a marginal portion of said upper face, said slide having inwardly extending lip portions at the upper edges of the parallel walls of said recess, said recess being adapted to receive removable sheets or cards, whereby the uppermost sheet or card will be concealed when the slide is in its innermost position in the desk or other article, and whereby anyone of said sheets or cards may be moved longitudinally through said recess and slot, whether the slide is in its retracted or withdrawn position with respect to the desk, table or other article, and a sheet of transparent material extending across the top of said recess to form a writing support and having its upper surface substantially flush with the upper surface of the slide, said transparent sheet being hinged with respect to the slide, whereby it may be raised to give access to anyone of the cards or sheets in said recess according as one or other of the same may have been drawn out.

3. A slide for desks, tables and other articles adapted to be inserted in a recess therein so as to conceal its upper face, said slide having a recess in said upper face provided with parallel side walls, and said slide having an open slot in an exterior vertical face in line with and communicating with said recess and lying beneath a marginal portion of said upper face, said slide having inwardly extending lip portions at the upper edges of the parallel walls of said recess, said recess being adapted to receive removable sheets or cards, whereby the uppermost sheet or card will be concealed when the slide is in its innermost position in the desk or other article, and whereby anyone of said sheets or cards may be moved longitudinally through said recess and slot, whether the slide is in its retracted or withdrawn position with respect to the desk, table or other article, and a sheet of transparent material extending across the top of said recess to form a writing support and having its upper surface substantially flush with the upper surface of the slide, said transparent sheet being hinged with respect to the slide, whereby it may be raised to give access to anyone of the cards or sheets in said recess according as one or other of the same may have been drawn out.
in said recess and extending into said slot, each of said cards or sheets being provided outside of said slot with a projection disposed perpendicularly to the card or sheet, of less width than the card or sheet and adapted to be engaged by the finger, the said projections on said cards or sheets being located on each at a different point transversely thereof, whereby by taking hold of one of said projections one or a plurality of cards may be drawn out through said slot to give access to the card or surface beneath the same within said recess.

In testimony whereof I affix my signature, in the presence of two witnesses.

LEONARD J. WOLF.

Witnesses:

ABRAHAM WOLF,

H. BORNKESSEL.