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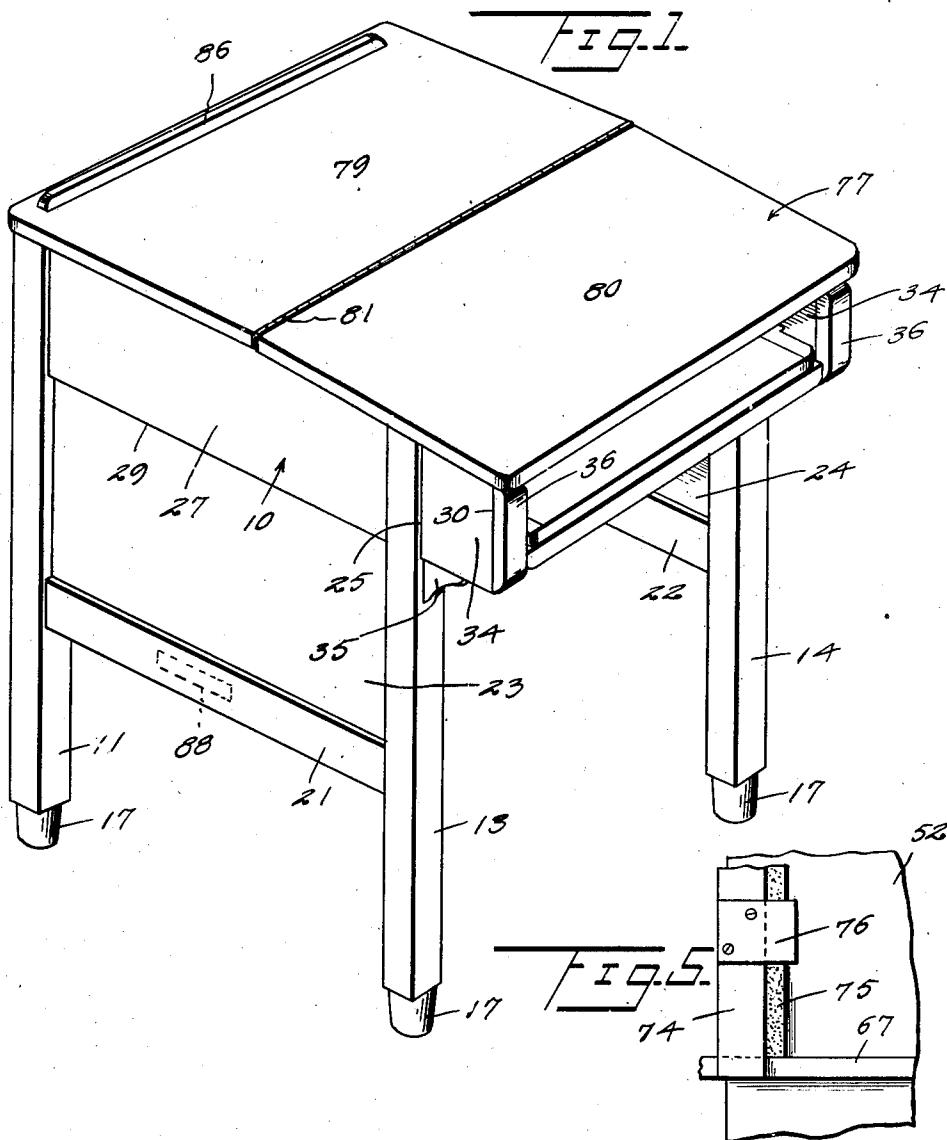
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DESK

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DESK

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7 Claims. (Cl. 45—91)

This invention relates to a desk.

The invention aims to provide, in a manner as hereinafter set forth, a typewriter desk including a normally closed adjustable top having a copy holder on the inner face thereof capable of being readily accessible when the desk top is adjusted with respect to the desk body and the typewriter supported in position for use.

The invention further aims to provide, in a manner as hereinafter set forth, a desk including an adjustable top formed of a front and a back section hinged together and with the front section sloping downwardly with respect to the back section when the top is in non-adjusted position.

The invention further aims to provide, in a manner as hereinafter set forth, a typewriter desk including an adjustable top formed of a front and a back section hinged together, the back section hinged at its rear to the rear of the desk body, and with the back section having means for correlation with the front section for moving the latter in unison with the back section when the latter is shifted upwardly on the hinge connection between the back section and desk body.

The invention further aims to provide, in a manner as hereinafter set forth, a typewriter desk including an adjustable top formed of a front section and a back section, with the former capable of being angularly adjusted upwardly relative to the latter, and being formed on its inner face with a copy holder, and correlated means on said sections for releasably maintaining said copy holder in position for use when the front section is adjusted at an angle with respect to the back section.

The invention further aims to provide, in a manner as hereinafter set forth, a typewriter desk including an adjustable top formed of a front and a back section, the front section capable of being angularly adjusted relative to the back section, and with the said section having correlated means for releasably holding the front section in its adjusted position.

The invention further aims to provide, in a manner as hereinafter set forth, a typewriter desk including a built-in copy holder arranged to eliminate all necessity for copy space at the sides of the desk top, as well as promoting efficiency and a rest for the eyes of the operator.

The invention further aims to provide, in a manner as hereinafter set forth, a desk for the purpose referred to, which is simple in its construction and arrangement, strong, durable, compact, distinctive and pleasing in appearance, thoroughly efficient when used for the purpose in-

tended thereby, readily assembled and comparatively inexpensive to manufacture.

Embodying the aims aforesaid and others which may hereinafter appear, the invention consists of the novel construction, combination and arrangement of parts as will be more specifically referred to and illustrated in the accompanying drawings, wherein are shown embodiments of the invention, but it is to be understood that changes, variations and modifications may be resorted to which fall within the scope of the invention as claimed.

In the drawings:

Figure 1 is a perspective view of a desk in accordance with this invention,

Figure 2 is a vertical longitudinal sectional view of the desk when the typewriter, concealed thereby, is shifted to expose position for use and further illustrating respectively in dotted lines the normal position of the typewriter shelf; in full lines the shelf when arranged to support the typewriter in position for use; in dotted lines the position of the adjusted top when shifted to permit of the moving of the typewriter from concealed to the exposed position aforesaid; and in full lines the positions of the sections of the adjustable top when the typewriter is arranged in position for use,

Figure 3 is a section on line 3—3 Figure 2,

Figure 4 is a section on line 4—4 Figure 3,

Figure 5 is a fragmentary view in top plan,

Figure 6 is a sectional detail, and

Figure 7 is a fragmentary view in vertical section illustrating the lower terminal portion of a supporting leg.

With reference to Figures 1 to 7 of the drawings, the desk generally indicated at 10 includes a pair of spaced horizontally aligned rear supporting legs 11, 12 and a pair of spaced horizontally aligned front supporting legs 13, 14. The said legs as shown are of uniform square cross section. The legs 11, 12 are spaced rearwardly from and align with the legs 13, 14 respectively. The lower end of each leg is formed with an inverted frusto-conical foot-piece 15 (Figure 7) inset with respect to the side faces of the leg to form an endless shoulder 16. Encompassing each foot-piece 15, abutting the shoulder 16 and depending from the lower end of the foot-piece is a shoe 17 of cup-shaped contour having a suction creating recess 18 in its lower face. The shoe 17 is formed of a resilient rubber body 19 having embedded therein a core 20 of spring metal (Figure 7).

The leg 11 is connected to the leg 13 by a brace member 21. The leg 12 is connected to

the leg 14 by a brace member 22. The connections between the legs and the brace members may be in the form of the well known mortise and tenon joints. The brace members are disposed between the transverse medians of the legs and the lower ends of the latter. Mounted in the top of member 21 and disposed between the legs 11, 13 is a vertical panel 23 having its top arranged between the transverse medians of said legs and the upper end of the latter. Mounted in the top of member 22 and disposed between the legs 12, 14 is a vertical panel 24 having its top arranged between the transverse medians of the legs 12, 14 and the upper ends of the latter. The upper terminal portions of the inner sides of the legs 13, 14 are cutout to form shoulders below the upper end of such legs. The cutout formed with respect to the leg 13 is indicated at 25 (Figure 1). The shoulder formed with respect to the leg 14 is indicated at 26 (Figure 2). The shoulders 26 on the legs 13, 14 align. Mounted on the tops of the panels 23, 24 are top side cheeks 27, 28 respectively. These cheeks are substantially of oblong contour in side elevation and disposed on their lower lengthwise edges 29. The said edges are straight throughout. Each cheek includes a front end 30 and a rear end 31 of greater height than the end 30. The upper lengthwise edge of each cheek has a rear portion 32, which is disposed throughout in parallel relation with respect to the rear portion of the edge 29. The upper lengthwise edge of each cheek has its formed portion 33 sloping downwardly with respect to the portion 32. The edge portion 33 is of greater length than the edge portion 32. The downwardly sloping edge portion 32 provides for the front ends 30 of the cheeks to be of less length or height than the said rear ends 31. The ends 31 of the cheeks are secured to the front surfaces of the legs 11, 12 above the panels 23, 24. The cheeks 27, 28 are mounted upon the shoulders 26 and secured to the upper terminal portions of the legs 13, 14. The cheeks 27, 28 project outwardly beyond the shoulders 26 to the desired extent whereby the legs 13, 14 are inset with respect to the front ends of 30 of the cheeks providing clearance for the knees of a typewriter operator relative to the legs 13, 14. That part of each of the side cheeks which extends outwardly from a front leg is indicated at 34 and it is mounted on and secured to a supporting bracket 35 attached to a front leg in a manner to align with a shoulder 26. Secured to the ends 30 and of greater width than the thickness of the side cheeks are stop members 36. The upper and lower ends of the members 36 are flush respectively with the outer ends of the upper and lower lengthwise edges of the side cheeks. The outer side faces of the members 36 are flush with the outer side faces of the side cheeks. The members 36 project inwardly with respect to the side cheeks to form vertically disposed stops for a purpose to be referred to.

The legs 11, 12 are connected together by a brace member 37 disposed at the same level as and at right angles to the brace members 21, 22. Mounted on the member 37 and arranged between the legs 11, 12 is a fixed vertical back panel 38 having its top arranged between the transverse medians and upper ends of such legs. Arranged between and secured to the legs 11, 12, as well as being mounted on the panel 38 is an upper back cheek 39 of rectangular contour disposed on its lower lengthwise edge and

having its upper lengthwise edge flush with the upper ends of the legs 11, 14. The brace members 21, 22, 37 and cheeks 27, 28, 39 are of greater thickness than the panels 23, 24, 38, but of less thickness than the legs 11, 12, 13, 14.

The desk 10 includes a rectangular stationary shelf 40 arranged between the lower portions of the side cheeks 27, 28 and the lower ends of the stop members 36 and which is suitably secured to said side cheeks. The shelf 40 is cutout at the outer ends of its sides, as at 41, to abut the stop members 39 as shown in Figure 4. The shelf 40 on its upper face is formed with a front rib 42 and a pair of side ribs 43, 44. The ends of the rib 42 abuts the stop members 36. The ribs 43, 44 abut the side cheeks 27, 28 respectively and the stop members 39 (Figure 4). The rear edge 45 of the shelf 40 centrally thereof is formed with a cutout having a segmental shaped edge 46. The lower face of shelf 40 is flush with the lower edges of the side cheeks and the lower ends of the stop members 36. The upper faces of the ribs 42, 43, 44 align and the said ribs provide a support for a purpose to be referred to.

Secured to the inner sides of the cheeks 27, 28 and spaced rearwardly from the ribs 43, 44 are supports 47, 48 respectively of strip-like form. The upper faces of said supports align with the upper faces of the ribs 43, 44. The supports 47, 48 have arranged thereon, intermediate their ends resilient stops 49 secured to the side cheeks. The rear ends of the ribs 43, 44 are downwardly beveled. The forward ends of the supports 47, 48 are rounded. The supports correlate with the ribs 43, 44 for a purpose to be referred to.

The desk includes an open top chamber, well or pocket 50 in which the typewriter 51 is stored and from which the latter is shifted from and supported when desired for use. The chamber, well or pocket will hereinafter be termed chamber. The latter is substantially of right angle triangular contour and it includes a downwardly inclined bottom wall 52, secured to and mounted on a pair of downwardly inclined spaced parallel supports 53 extending from the rear surfaces of the legs 13, 14 to a point on the brace members 21, 22 forwardly of their rear ends. The upper end portion of the wall 52 is arranged below the rear portion of the shelf 40. The chamber 50 includes a pair of side walls and a back wall. The side walls are formed from a portion of the panels 23, 24 and a portion of the brace members 21, 22. The back wall is formed from the panel 38 and brace member 37. The chamber 50 at the rear part of its bottom is open, due to the fact that the wall 52 does not extend to the back wall of the chamber.

The desk includes a slidable shelf or slide 54 for and upon which the typewriter is fixed by any suitable means so as to be bodily movable therewith. The shelf or slide 54 will be hereinafter termed a carrier. The latter is of substantially rectangular form and it consists of a flat plate-like body 55 having the front portion of its sides 56 rabbeted to form oppositely disposed shoulders 57 and a forward portion 58 of less width than its remaining portion 59. The rear lengthwise edge 60 of body 55 is formed with a cutout 61 having the side edges 62 thereof arranged between the horizontal median of said body 55 and the side 56 of the latter. The base edge 63 of the cutout 61 is arranged rearwardly of the longitudinal median of the body 55. The

lower face of the body 55 is formed with a pair of spaced parallel like grooves 64, 65 which extend from the front lengthwise edge 66 of body 55 and terminate at the end terminal portions of the base edge 63 of the cutout 61. When the typewriter 51 is fixed upon the carrier 54, the back thereof is to align with the base edge 63 of the cutout 61.

Arranged within the chamber 50 is a pair of spaced parallel tracks 67, 68 of like form upon which the carrier 54 travels. The tracks 67, 68, when the carrier 54 is mounted thereon, extend into the grooves 64, 65 respectively. The grooves and tracks also correlate to form guides for the carrier, as well as arresters to prevent lateral shifting of the carrier, relative to the wall 52, when it drops into or is removed from chamber 50. The tracks incline downwardly from the shelf 40 and are secured on the upper face of wall 52 between opposite sides of the lengthwise median of wall 52 and the side edges of the latter. Each track has its top edge formed with a straight portion 70 and a convexed or arcuate portion 71 offset relatively to the portion 70. The latter is of greater length than and arranged below the portion 71. That part of the track having the convexed edge portion is of greater height than the part of the track having the straight edge portion. The convexed edge portions of the track function to elevate the typewriter just before it passes off of the tracks in the act of pulling the typewriter to a position for use. The convexed edge portions increase the speed of the drop when the typewriter is shifted in a direction to drop into chamber 50.

The tracks 67, 68 extend from the rear edge 45 of shelf 40 to the brace member 37. The tracks at their upper ends are arranged on opposite sides of the cutout 46 in edge 45. The upper termini of the convexed edge portions 71 are flush with the upper face of shelf 40. The tracks are rabbeted at their upper ends, as at 72 for supporting the rear portion of and are suitably secured to the shelf 40. The lower ends of the tracks are secured to the ends of a coupling strip 73 anchored to brace member 37. The convexed edge portions 71 of the tracks also function to provide for directing the carrier 54 seating on the ribs 43, 44 of the shelf 40 when the typewriter is being moved to a position for use. The tracks extend rearwardly from the bottom edge of the wall 52.

There is arranged in transverse relation with respect to the lower terminal portions of the tracks 67, 68, a resilient combined stop and cushioning structure acting to limit the extent, with a cushioning effect, of the downward movement, in the chamber 50 of the carrier with the typewriter thereon. The said structure includes a support 74 mounted on the lower portion of wall 52 and arranged between the tracks 67, 68, a resilient bumper 75 and a retainer 76. The support 74 is suitably secured to the wall 52 and to the tracks, as well as extending above the tracks and overlapping the edge portions 70 of the tracks. The bumper 75 is secured to the forward face of support 75, spaced above the wall 52 and extended above the tracks. The retainer 76 is secured upon the support 74 and overlies the top of bumper 75. The retainer has its forward end beveled. The legs 11, 12, 13, 14, the brace members, the panels, the side and back cheeks and the shelf 40 correlate to form the desk with what may be termed an open top braced body portion, which is also open at its front.

The said body portion has correlated therewith an adjustable structure hinged thereto for closing the top thereof.

The hinged adjustable structure includes the top 77 for the desk and a copy holder 78. The top 77 comprises a flat rear section 79 and a sloping front section 80. The sections 79, 80 are hinged together, as at 81 to permit of the section 80 being swung upwardly in angular relation with respect to the section 79. The latter extends rearwardly from the back cheek 39 and is hinged to the latter, as at 82, whereby section 79 may be swung upwardly at an angle with respect to the cheek 39. The section 79 is mounted on the edge portions 32 of the side cheeks. The section 80 is mounted on the edge portions 33 of the side cheeks whereby it slopes downwardly with respect to section 79. The section 80 is of a length that when it is mounted on the edge portions 33 it will have the front end flush with the front faces of the stop members 36. The section 79 has secured to its lower face and extended from its front edge a pair of spaced parallel arms 83, which act as supports for section 80 and also act to elevate section 80 with section 79 when the latter is gripped and elevated on its hinged connection 82. The side cheeks and section 79 have correlated means 84, of known form for releasably maintaining the section 79 in an elevated position as per the dotted line showing, Figure 2. The section 80 and arms 83 have correlated means 85 of known form for releasably maintaining the section 80 when disposed in angular relation with respect to portion 79 such as shown by the full line and dotted line positions of section 80, Figure 2.

Secured to the lower face of the section 80, intermediate the ends of the latter, as well as spaced from the side edge thereof is the copy holder 78. Arranged transversely of the upper face of section 79, in proximity to the rear end of the latter is a stop 86.

It will be assumed that the carrier, with the typewriter thereon, is concealed in the chamber 50 with the desk closed, and it is desired to position the typewriter for use, the top 77 is shifted to the dotted line position shown by Figure 2 and releasably maintained in such position by the means 84, 85. The typewriter is then gripped and pulled outwardly to an extent to have the carrier 54 seat on the ribs of shelf 40 and partly project from the member 36. The limit of the projecting of the carrier 54, beyond members 36 is controlled by the correlation of the shoulders 57 of the carrier 54 with the inwardly extending portions of the stop members 36. The carrier and typewriter, when the carrier seats on the ribs of the shelf 40 will be disposed horizontally. After the carrier has been disposed horizontally and in projected relation relative to the stop members 39, it is then shifted rearwardly to an extent to have its rear portion seat on the supports 47, 48, whereby it will be firmly supported, and when so seated on supports 47, 48 preferably it will be arranged against the front ends of the abutments 49. The latter limit the extent of the rearward shifting of the carrier. After the carrier has been arranged in a firmly supported position, the top 77 is moved to the full line position, Figure 2, with top section 80 disposed at an angle to the top section 79 and with the copy holder 78 arranged in proper position for the operator of the typewriter. When it is desired to shift the typewriter from position of use therefor to concealed position, the carrier is pulled

towards the stop members 36, but the pull in such direction is limited and arrested by the correlation of the shoulders of the carrier with the stop members 36. On the arrest of the outward pull of the carrier 54 it is pushed rearwardly on the edge portions 71 of the tracks, tilts downwardly on such portions, and then drops downwardly on the tracks into chamber 50. After the typewriter has dropped into chamber 50 the section 80 of the top 77 is released and moved to the position shown by Figure 1.

The depth of the grooves 64, 65 is such as to provide a space between the lower face of the carrier and the wall 52. The tracks 67, 68 co-act with a portion of the wall 52 and with a portion of the support 74 to form a paper rack as indicated at 87. The brace members 21, 22 are connected together by a bracing bar 88. The cutout, in shelf 40 having the edge 46 facilitates access to the paper rack 87. The shelf 40 also provides for connecting the side cheeks together. The distance between the supports 47, 48 and the ribs 43, 44 is such as to provide a clearance for carrier 54 on the upward and downward movement thereof.

What we claim is:

1. In a desk for the purpose set forth, a body portion open at its upper end and a shiftable top mounted on and for closing said open upper end of said body portion, said top being formed of a front and a back section, said sections being hinged together, said front section being angularly adjustable relative to said back section and said open upper end, said back section being hinged to the rear of said body portion, said back section being capable of being angularly adjusted relative to said body portion and provided with arms engaging beneath the front section whereby to provide for the front section bodily moving with the back section when the latter is adjusted and when the front section is in the same plane as the back section, said front section and arms having correlated means for releasably maintaining the front section adjusted with respect to the back section, and said body portion and back section having correlated means for releasably maintaining the back section in adjusted position.

2. In a desk for the purpose set forth, an adjustable hinged top formed of a front and a back section hinged together, said front section being angularly adjustable relative to said back section, said sections having correlated means for releasably maintaining the front section adjusted relative to the back section, means for releasably maintaining said top in adjusted position, and said correlated means including forwardly extending means carried by the back section to provide for the moving of the front section with the back section.

3. In a desk, a body portion open at its upper end and including opposite side walls and a rear end wall, a shiftable top on the upper end of said body portion, said top including a back section and a front section, means hingedly securing the rear of said back section to said rear wall, means hingedly securing said sections together, a pair of spaced parallel arms fixed to the lower side of said back section and extending forwardly of the forward edge of the latter, a slotted link pivotally carried by said back section, said link having a notch therein adjacent an end of said slot, means fixed to a side wall slidable in said slot and engageable in said notch for holding said back section in raised position, a slotted

link pivotally carried by said front section, and means carried by an arm slidably engaging in said latter slot for holding said front section in upwardly and rearwardly inclined position.

4. In a desk, a body portion open at its upper end and including opposite side walls and a rear end wall, a shiftable top on the upper end of said body portion, said top including a back section and a front section, means hingedly securing the rear of said back section to said rear wall, means hingedly securing said sections together, a pair of spaced parallel arms fixed to the lower side of said back section and extending forwardly of the forward edge of the latter, a slotted link pivotally carried by said back section, said link having a notch therein adjacent an end of said slot, means fixed to a side wall slidable in said slot and engageable in said notch for holding said back section in raised position, a pair of slotted links pivotally carried by the lower side of said front section adjacent the rear thereof, and means carried by each arm forwardly of said back section engaging in the slots of said pair of links for holding said front section in upwardly and rearwardly inclined position.

5. In a desk, a body portion open at its upper end and including opposite side walls and a rear end wall, a shiftable top on the upper end of said body portion, said top including a back section and a front section, means hingedly securing the rear of said back section to said rear wall, means hingedly securing said sections together, a pair of spaced parallel arms fixed to the lower side of said back section and extending forwardly of the forward edge of the latter, correlated means carried by said back section and a side wall for holding said back section in raised position, a pair of slotted links pivotally carried by the lower side of said front section adjacent the rear thereof, and means carried by each arm forwardly of said back section engaging in the slots of said pair of links for holding said front section in upwardly and rearwardly inclined position, said pair of links holding said front section in raised position in either the horizontal or raised position of said back section.

6. In a desk, an adjustable top hinged at its rear edge and formed of a front and a back section hinged together, said front section being angularly adjustable relative to said back section, a copy holder carried by the inner side of said front section, means maintaining said front section in raised position with respect to said back section, said front section when in raised position being disposed on an acute angle with respect to said back section and being upwardly and rearwardly inclined, and means for maintaining said back section in raised position, raising of said back section also raising said front section when the latter is in raised position, and the angular position of the front section with respect to the back section remaining constant when the back section is raised said latter means maintaining said front section in a substantially upright position in the horizontal position of the rear section.

7. In a desk for the purpose set forth, a body portion entirely open at its upper end and a shiftable top mounted on and for selectively partially or entirely closing said open upper end of said body portion, said top being formed of a front and a back section, a copy holder carried by the inner side of said front section, said sections being hingedly connected together, said back

section being hingedly connected to the rear of said body portion, said front section and said back section being angularly adjustable together with respect to said body portion and said front section being independently angularly adjustable to a raised position relative to said back section, means for releasably maintaining said back section in an angularly adjusted position,

5 means for arresting the backward movement of and for maintaining said front section in a substantially vertical position with respect to said back section when said back section is in a closed position relative to said body portion.

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