

March 22, 1932.

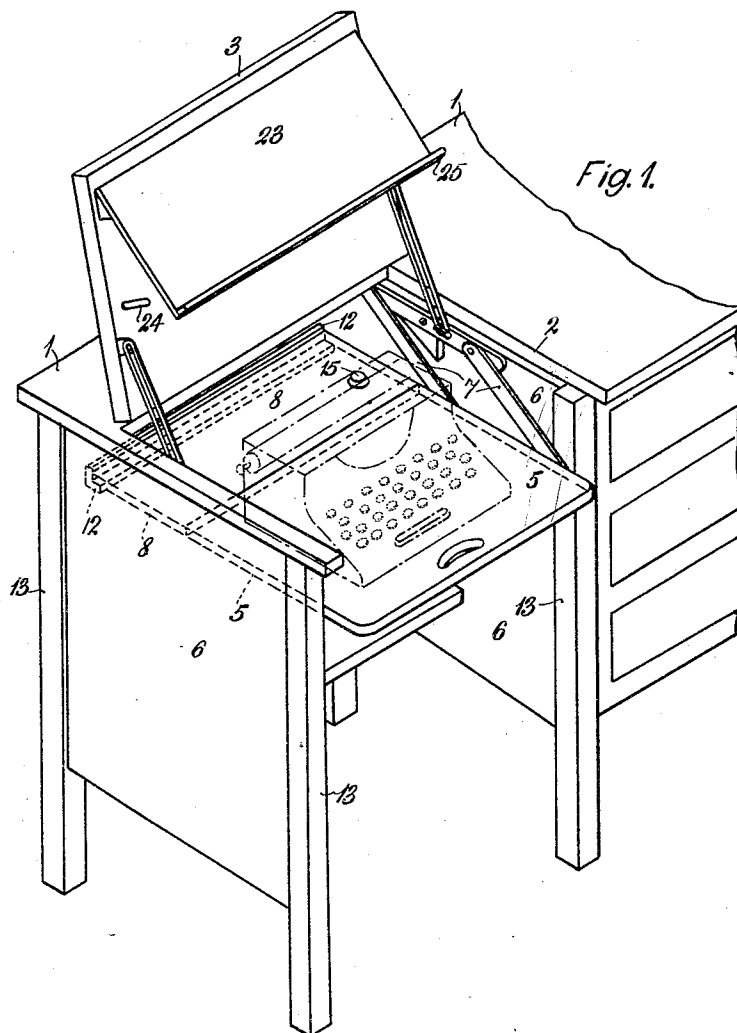
C. R. YOUNG

1,850,487

MOVABLE TYPEWRITER SUPPORT OR TABLE

Filed Jan. 10, 1930

3 Sheets-Sheet 1



INVENTOR
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March 22, 1932.

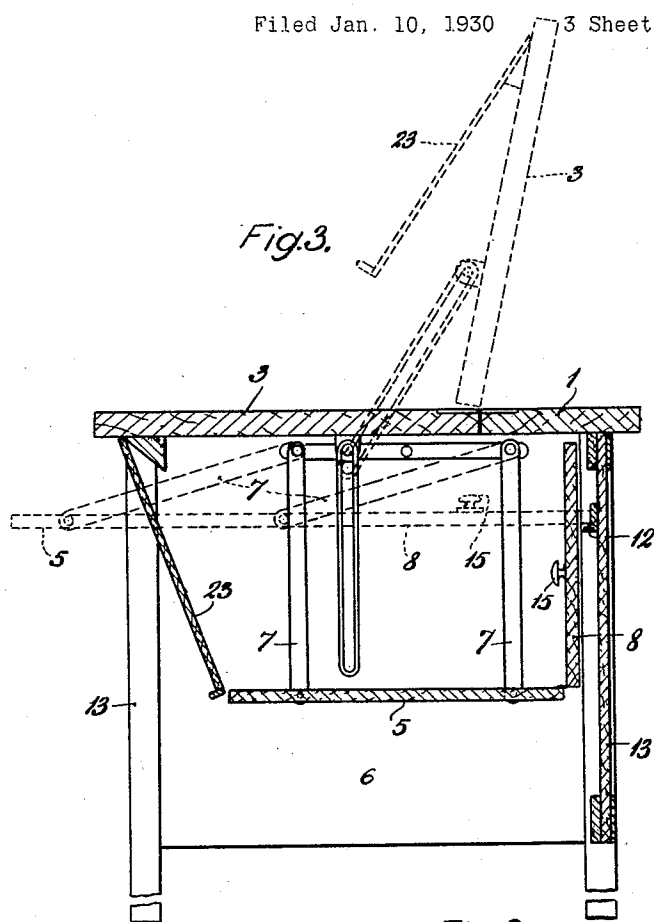
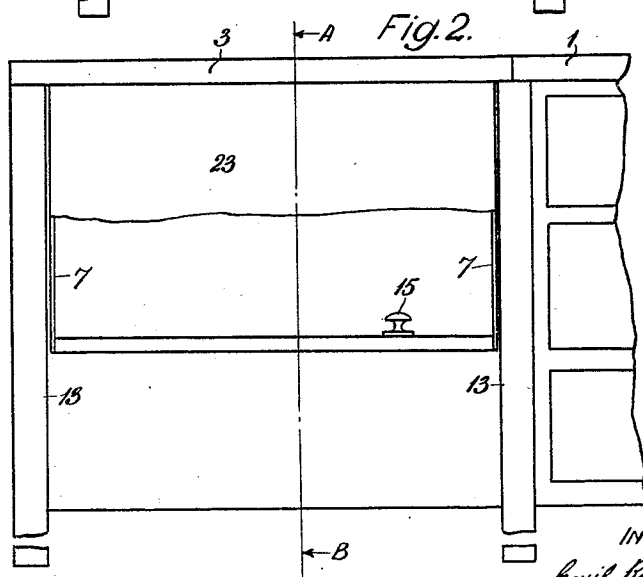
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73 Sheets-Sheet 2



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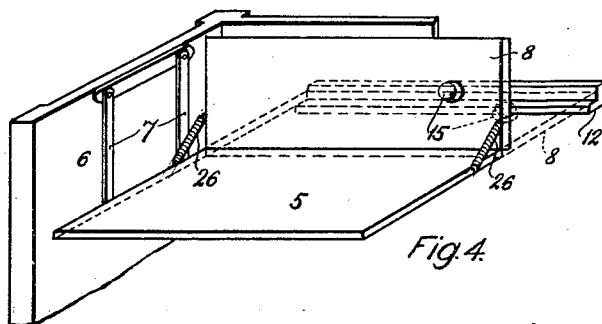
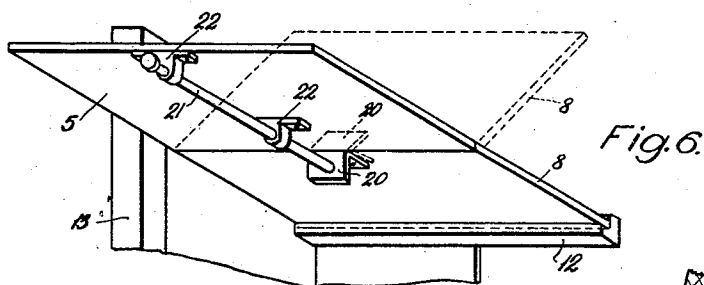
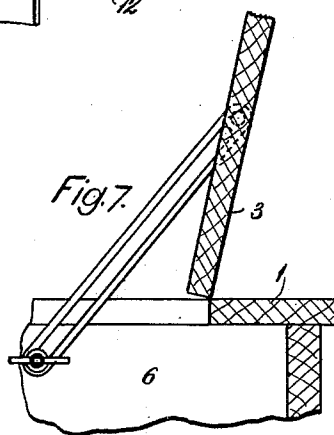
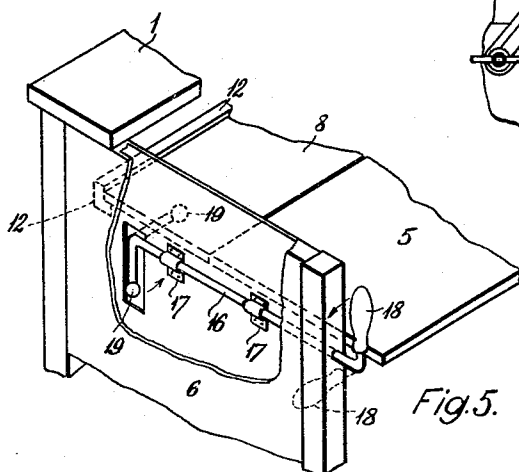
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MOVABLE TYPEWRITER SUPPORT OR TABLE

Filed Jan. 10, 1930

3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE

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MOVABLE TYPEWRITER SUPPORT OR TABLE

Application filed January 10, 1930, Serial No. 419,957, and in Great Britain September 26, 1929.

The present invention relates to improvements in those movable typewriter supports or tables on which the typewriter, calculating or like machine can be lowered to a position beneath the table top and thus leave it clear for other purposes when the machine is not in use.

The object of the present invention is to provide a simplified form of this class of table or support which can be manufactured in wood or metal at small cost compared to those typewriter tables of this character now in use.

Briefly stated the present invention comprises a movable typewriter platform or table of the above described class in which the machine platform is suspended beneath the table top on opposite pairs of parallel links and is retained in an upward and forward position by supporting means adapted to be moved to the inoperative position to lower the platform by a releasing member operated from the front of the table.

In a preferred construction the supporting means is in the form of a hinged flap attached to its rear edge adapted to lie in the horizontal plane when the said platform is pulled forward to the raised position with the rear edge of the flap resting in engagement with a transverse ledge or bracket, mounted on the rear wall of the table framework. When in this position the hinged flap holds the machine platform in the forward and raised position in the well of the table.

My invention is illustrated by way of example in the accompanying drawings, in which—

Figure 1 shows a perspective view of the table with the machine platform in the raised position and a machine resting thereon.

Figure 2 shows a front view of the table on an enlarged scale to Figure 1 with the machine support lowered.

Figure 3 shows a sectional side view on the line A—B of Figure 2.

Figure 4 shows a form of flap fitted with a leaf spring.

Figure 5 shows a detail view of a lifting lever for the flap.

Figure 6 shows a rod for lifting the flap and

Figure 7 shows a slotted stay for supporting the table cover.

Referring now to the drawings, the table top 1 mounted on the framework 13 is provided with an opening 2 through which the machine projects when in the raised position fitted with a hinged cover 3 adapted to be closed when the machine platform is in the lowered position. This movable machine platform 5 is suspended on opposite pairs of parallel links 7 respectively pivoted to the side walls 6 of the table directly beneath the table top as shown or directly to the underside of the table top. This swinging platform 5 is adapted to be moved from the position shown in Figures 2 and 3 to the raised position shown in Figure 1 and is supported in this position by a hinged flap 8. This hinged flap 8 carries the weight of the platform with its load when the platform has been raised to a point (previously determined) when the hinged flap (being prevented by a stop fitted on the underside of the table top 1 from falling forward) falls or pivots backwards to a position on the same plane as the horizontal platform at which position it engages with a transverse ledge or brackets 12 on the rear wall of the table framework 13. When the machine platform 5 is in this position the parallel links 7 and the hinged flap 8 hold it rigidly in the raised position against any shocks to which it may be subjected during the use of the machine resting thereon. To allow of convenient handling this swinging platform 5 may be fitted with a cutout finger grip as shown or with a handle.

In order to release the flap from the bracket on the rear wall of the table framework means are provided for lifting it slightly so that it may be unhindered, ultimately assume a position at right angles to the plane of the platform and allows the said movable platform to fall to its lowest position in the well of the table. In its simplest form the flap may be provided with a button 15 conveniently arranged on the left or right hand side as shown so that to lower the table the user quite naturally pulls the platform slightly

upwards and forward with his left or right hand to release the engaging flap and then raises the flap with his left or right hand by the button 15.

5 As shown in Figure 4 the supporting flap 8 may be pushed down against a light spring 26 tending to bring the flap to a position at right angles to the plane of the platform when the weight of the table is taken off the
10 flap.

Alternatively, as shown in Figure 5, means may be provided for knocking up this supporting flap 8 formed by an operating rod 16 mounted in bearings 17 in a side wall of the
15 table frame in a horizontal plane about the plane of the ledge across the rear wall of the said frame. This rod is provided with a turning handle 18 in a convenient position in the front of the table and a cranked arm 19
20 adapted when the rod is turned to engage under the hinged flap to lift the flap off the transverse ledge 12 towards a position ultimately at right angles to the plane of the
25 said movable platform thus allowing said platform to fall to its lowest position in the well of the desk or table.

In another alternative form shown in Figure 6 the supporting flap 8 is provided with
30 a depending angle-piece 20 adapted to be engaged in order to pivot the flap upwards by a rod 21 sliding in suitable bearings 22 on the underside machine platform. The free end of this operating rod projects nearly to the
35 front edge of the said swinging platform in a convenient position to allow of its being easily pressed inwards to push the angle piece attached to the flap when it is desired to lower the platform.

Any convenient form of cover may be employed to keep dust from the machine on the
40 swinging platform when this machine is out of use and the platform has been lowered beneath the table top to the position shown in Figures 2 and 3 but particularly it is proposed to employ a hanging cover depend-
45 ing from hinges affixed to the front edge of the cover 3 which when the cover is closed hangs in a slightly inclined vertical position in front of the lowered machine which is then
50 fully enclosed on all six sides.

This cover may also be used as a book rest or copy holder 23 in its open position. The
cover when raised depends by hinges from the top edge of the cutout portion of the table
55 top and by means of a small pivoting prop 24 is held forward at an approximate angle of 40° and with the aid of a ledge 25 skirting the lower edge of the hinged book rest supports a book or other reading matter.

60 Although I have described a hinged flap on the rear edge of the platform co-acting with the opposite pairs of parallel links to hold the platform rigidly in the upward and forward position it should be understood that
65 alternative forms of supporting means to the

hinged flap can be used. For instance a transverse rod may be mounted loosely with a short lifting travel on the underside of the said platform. This rod is provided with
70 projecting ends respectively engaging in opposite curved channels in the side walls of the framework of the table, corresponding in form with the path of the machine platform when it is moved from its lowest position in
75 the well of the table to the forward raised position. These curved channels are provided with corresponding recesses near their upper ends adapted to receive the said project-
80 ing ends of the loose rod as it drops into recesses on reaching that position and thus carry the machine platform in the raised forward position in the well of the table. These
85 recesses are so positioned that the swinging platform can be instantly released and lowered by the action of first lifting the loose rod clear of the said recesses.

What I claim is:—

1. A movable typewriter platform or table of the type in which said platform can be
90 lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying
95 said machine platform beneath said table top, a movable platform extension hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane in engagement with the rear wall of the table
100 framework when the platform is pulled forward to the raised position and a platform support on the rear wall of the table framework about the plane of the raised position of
105 said platform adapted to be engaged by the rear edge of said hinged platform extension when said platform and its extension are in the same horizontal plane.

2. A movable typewriter platform or table of the type in which said platform can be
110 lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carry-
115 ing said machine platform beneath said table top, a movable platform extension hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane in engagement with the rear wall of the table
120 framework when the platform is pulled forward to the raised position, a platform support on the rear wall of the table framework about the plane of the raised position of said
125 platform adapted to be engaged by the rear edge of said hinged platform extension when said platform and its extension are in the same horizontal plane and a releasing member adapted to be operated from the front of
130 the machine to move said platform extension

to the inoperative position and thus lower said swinging platform.

3. A movable typewriter platform or table of the type in which said platform can be lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying said machine platform beneath said table top, a flap hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane with its rear edge resting in engagement with the rear wall of the table framework when the platform is pulled forward to the raised position, a platform support on the rear wall of the table framework about the plane of the raised position of said platform adapted to be engaged by the rear edge of said hinged flap when said platform and its flap are in the same horizontal plane.

4. A movable typewriter platform or table of the type in which said platform can be lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying said machine platform beneath said table top, a flap hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane with its rear edge resting in engagement with the rear wall of the table framework when the platform is pulled forward to the raised position, a platform support on the rear wall of the table framework about the plane of the raised position of said platform adapted to be engaged by the rear edge of said hinged platform extension when said platform and its extension are in the same horizontal plane and means for raising the flap to a position at an angle to the plane of the platform when the weight of the table is taken off said flap.

5. A movable typewriter platform or table of the type in which said platform can be lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying said machine platform beneath said table top, a flap hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane with its rear edge resting in engagement with the rear wall of the table framework when the platform is pulled forward to the raised position and a transverse ledge on the rear wall of the table framework about the plane of the raised position of said platform adapted to be engaged by the hinged flap when moved to the horizontal plane to hold said platform in the raised position.

6. A movable typewriter platform or table

of the type in which said platform can be lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying said machine platform beneath said table top, a flap hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane with its rear edge resting in engagement with the rear wall of the table framework when the platform is pulled forward to the raised position, a transverse ledge on the rear wall of the table framework about the plane of the raised position of said platform adapted to be engaged by the hinged flap when moved to the horizontal plane to hold said platform in the raised position and a hand grip on the upper surface of said flap adapted to be operated to lift said flap out of engagement with the transverse ledge on the rear wall of the table framework.

7. A movable typewriter platform or table of the type in which said platform can be lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying said machine platform beneath said table top, a flap hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane with its rear edge resting in engagement with the rear wall of the table framework when the platform is pulled forward to the raised position, a transverse ledge on the rear wall of the table framework about the plane of the raised position of said platform adapted to be engaged by the hinged flap when moved to the horizontal plane to hold said platform in the raised position, a hand grip on the upper surface of said flap adapted to be operated to lift said flap out of engagement with the transverse ledge on the rear wall of the table framework and means for raising the flap to a position at an angle to the plane of the platform when the weight of the table is taken off said flap.

8. A movable typewriter platform or table of the type in which said platform can be lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying said machine platform beneath said table top, a flap hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane with its rear edge resting in engagement with the rear wall of the table framework when the platform is pulled forward to the raised position, a platform support on the rear wall of the table framework about the plane of the raised position of said platform adapted to be engaged

by the rear edge of said hinged flap when said platform and its flap are in the same horizontal plane and a spring tending to raise the flap to a position at an angle to the plane of the platform when the weight of the table is taken off said flap.

9. A movable typewriter platform or table of the type in which said platform can be lowered to a position in which the machine thereon is clear of the underside of the table top comprising a table with an opening in the table top for the machine in the raised position, opposite pairs of parallel links carrying said machine platform beneath said table top, a flap hinged to the rear edge of said swinging platform adapted to be moved to the horizontal plane with its rear edge resting in engagement with the rear wall of the table framework when the platform is pulled forward to the raised position, a transverse ledge on the rear wall of the table framework about the plane of the raised position of the platform adapted to be engaged by the hinged flap when moved to the horizontal plane to hold said platform in the raised position, a hand grip on the upper surface of said flap adapted to be operated to lift said flap out of engagement with the transverse ledge on the rear wall of the table framework and a spring tending to raise the flap to a position at an angle to the plane of the platform when the weight of the table is taken off said flap.

In testimony whereof I have signed my name to this specification.

CYRIL ROBERT YOUNG.