

June 1, 1954

J. A. SCHUETTE
COMBINATION OF A SHELF AND TYPEWRITER
MOUNTING PIVOT PLATE

2,679,992

Filed Dec. 22, 1950

2 Sheets-Sheet 1

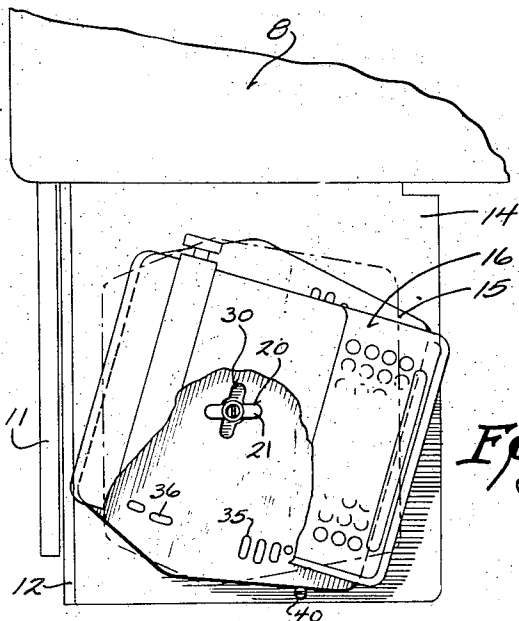
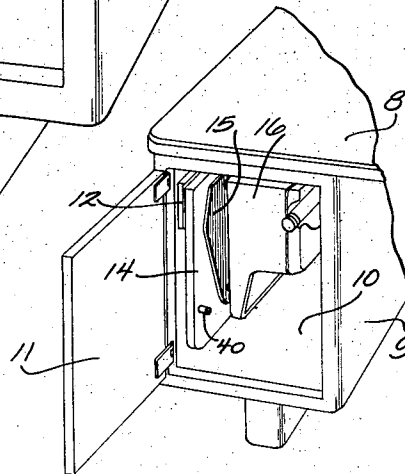
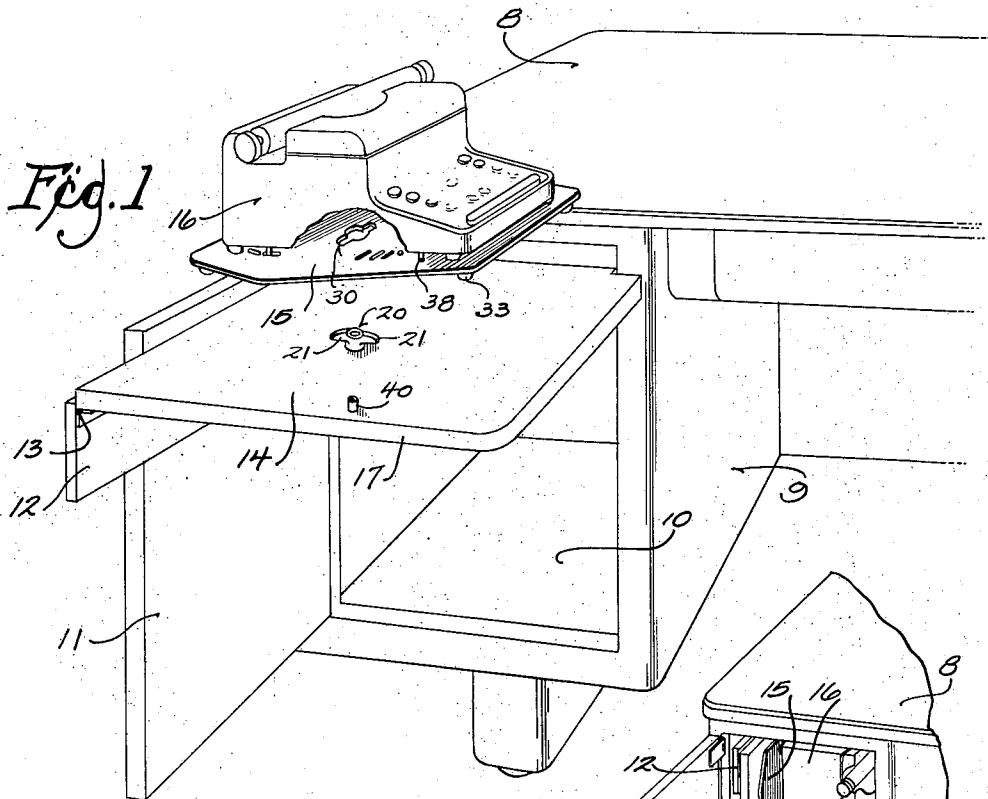


Fig. 3

INVENTOR.
JOHN A. SCHUETTE
BY

Wheeler, Wheeler & Wheeler
ATTORNEYS

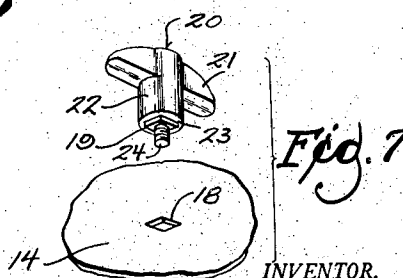
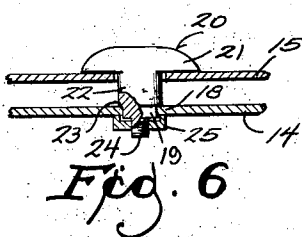
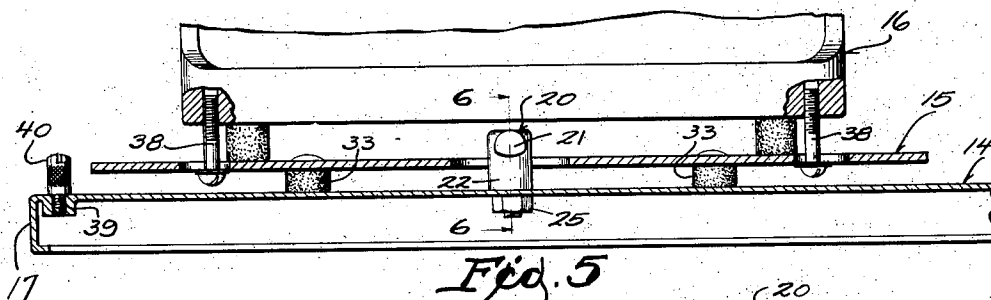
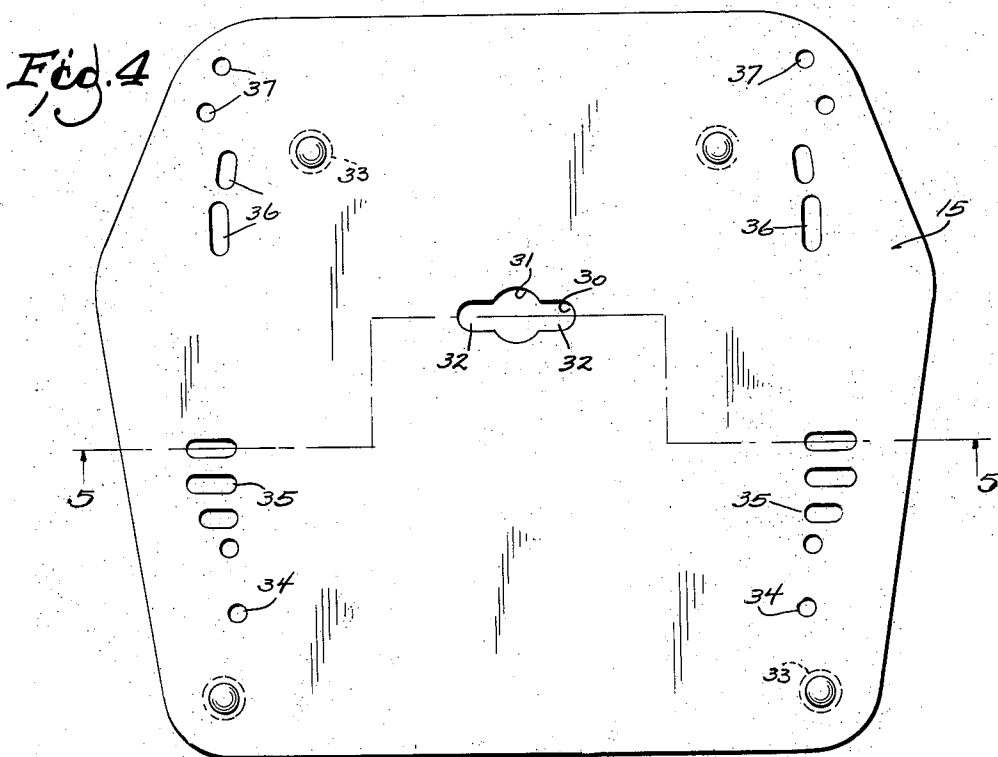
June 1, 1954

J. A. SCHUETTE
COMBINATION OF A SHELF AND TYPEWRITER
MOUNTING PIVOT PLATE

2,679,992

Filed Dec. 22, 1950

2 Sheets-Sheet 2



INVENTOR.
JOHN A. SCHUETTE
BY
Wheeler, Wheeler & Wheeler
ATTORNEYS.

UNITED STATES PATENT OFFICE

2,679,992

COMBINATION OF A SHELF AND TYPE-
WRITER MOUNTING PIVOT PLATEJohn A. Schuette, Manitowoc, Wis., assignor to
Invincible Metal Furniture Co., Manitowoc,
Wis., a corporation of Wisconsin

Application December 22, 1950, Serial No. 202,266

5 Claims. (Cl. 248—23)

1

This invention relates to a combination of a shelf and typewriter mounting pivot plate to which any conventional typewriter may readily be attached and which provides a support upon which the attached typewriter may be handled for connection with, and movement with respect to, a collapsible desk shelf or other support.

It is a primary object of the invention to provide a typewriter mounting and pivot plate readily detachable from the drop shelf of a desk, the shelf and plate having co-operating parts limiting the normal oscillation of the plate on the shelf while permitting the plate to be oscillated from a storage position to a position in which the supported typewriter is more readily accessible for use.

The mounting and pivot plate of this invention is provided with apertures and slots of various sizes and shapes to have universal application to any typewriter. At a point approximately beneath the center of gravity of the typewriter, the plate has a slot of large size to receive the T-shaped head of an anchor bolt which is securely fixed, for example, to a drop-leaf typewriter shelf. With the typewriter attached to the plate, the plate can be manipulated to pass the slot over the T-shaped head of the bolt, whereupon the rotation of the plate on the bolt will lock the plate to the shelf. The plate has its own resiliently yieldable feet which rest on the shelf to minimize noise transmission and yieldably to hold the plate and typewriter in any desired position of oscillatory adjustment. The range of oscillatory adjustment is desirably limited by connecting to the shelf a readily detachable stop which precludes the plate and typewriter from moving to a position of disengagement respecting the mounting bolt head.

In the drawings:

Fig. 1 is a view in perspective fragmentarily illustrating a desk and a pivot plate with mounted typewriter poised over the drop-leaf shelf of the desk.

Fig. 2 is a fragmentary detail view on a reduced scale showing the drop-leaf shelf and typewriter stored within the desk.

Fig. 3 is a plan view of the elevated dropleaf shelf showing the typewriter and supporting plate oscillated to a position for use, the storage position of the shelf being indicated in dotted lines, and the typewriter being partially broken away.

Fig. 4 is an enlarged plan view of the pivot plate.

Fig. 5 is a detail view in section through the shelf and plate on the line 5—5 of Fig. 4.

2

Fig. 6 is a view taken in section on the line 6—6 of Fig. 5.

Fig. 7 is a fragmentary detail view of the shelf in perspective, the mounting bolt being shown in perspective in a separated position.

The desk 8 is provided in its pedestal 9 with a storage cupboard 10 accessible on the opening of door 11. Conventional hardware not here shown in detail permits the slide 12 to be moved from the retracted position shown in Fig. 2 to the extended position shown in Fig. 1. Hinged at 13 to the slide 12 is the drop-leaf shelf 14 to which there is pivoted in accordance with this invention the mounting plate 15 upon which typewriter 16 is mounted.

As shown, the shelf 14 is a metal shelf having marginal flanges 17 (Fig. 5) to make it relatively rigid. The shelf is centrally provided with a squared or other non-circular socket 18 (Fig. 7) in which a correspondingly shaped boss 19 of the mounting fitting 20 is received. This fitting has a T-shaped head 21 and a shank 22 shouldered at 23 around the boss to maintain the head at a fixed spacing above the shelf 14. The mounting fitting is held to the shelf by a nut 25 on the threaded exterior 24, the nut being engaged beneath the shelf 14 to maintain the parts firmly in assembly.

In the desired position of the T-head 21 of the mounting fitting 20, such head may be approximately parallel to the outer margin of shelf 14. The pivot plate 15 has at 30 a slot which, in a position of the plate remote from that occupied in use, will register with the T-shaped head 21 of the mounting fitting 20 to be received freely thereover. The slot 30, as best shown in Fig. 4, has a generally circular central portion 31 which is complementary to the shank 22 of the mounting fitting 20. The slot 30 has portions extending laterally at 32 from the generally circular central portion 31, these being adapted to pass the head 21. After the plate has been positioned to register the wings 32 of slot 30 with the head 21, and the plate has been lowered below such head, the plate may be rotated upon the shank 22 of the fitting to either the full line or the dotted line positions in which the plate is shown in Fig. 3.

Aside from the somewhat loose bearing engagement of the plate upon the shank 22 of the mounting fitting 20, the plate is entirely free of any rigid connection with the shelf 14. It is provided with feet 33 of resiliently yieldable material such as synthetic or natural rubber which

cushions the transmission of any vibration from the typewriter to the shelf.

Numerous apertures and slots 34, 35, 36, 37, etc. in the plate 15 permit the use of bolts 38 for attachment of any standard typewriter to the plate.

After the plate and supported typewriter have been manipulated respecting the mounting fitting for attachment to the shelf 14, it is preferred to screw into the boss 39 of the shelf a stop member 40 located near the outer margin of the shelf where it will engage the plate to preclude the plate from accidental oscillation to a position such as to re-register the slot 30 with the head 21 of mounting fitting 29 for disengagement. When disengagement of the pivot plate from the shelf is desired, the stop 40 is removed. It is provided both with a screw-driver slot and with a knurled periphery to facilitate its manipulation and will ordinarily be removable by hand, without tools.

With the stop in place, the shelf and typewriter can readily be pivoted between the storage position shown in dotted lines in Fig. 3 and the position of use in which the shelf and typewriter are shown in full lines in Fig. 3. In this position of use, the typewriter is oscillated in its horizontal plane just sufficiently to give ample elbowroom so that the right arm of the operator will not be interfered with by the desk. The rubber feet with which the shelf is provided do not offer sufficient frictional resistance to preclude freedom of movement of the plate, but they do have sufficient friction on the shelf to preclude accidental movement. The plate will tend to remain in any position to which it is adjusted pivotally by the operator. Following a typing operation, the typewriter and shelf are pivoted to a position at right angles to the shelf in order that the shelf may be dropped to storage position and moved into the compartment 10, as shown in Fig. 2. The retracted typewriter offers no interference, in such position, to the closing of the door 11.

I claim:

1. As a fitting for the desk mounting of a typewriter, a new article of manufacture comprising a mounting plate provided at an intermediate point with a keyhole slot and having on its lower surface spaced outwardly from said slot a plurality of cushioned mounting feet, said plate having various apertures for the application of a typewriter thereto, a mounting fitting having means securing it against rotation and provided with a generally circular shank and a T-shaped head, the shank being sufficiently long to support the head above the level of the plate when the plate rests upon said feet and the keyhole slot having wings through which the T-shaped head is receivable and having a generally circular central portion, the margins of which find bearing on said shank for guiding the oscillation of said plate to a

plurality of positions of use respecting the mounting fitting.

2. The combination set forth in claim 1 in further combination with a shelf to which said fitting is non-rotatably attached, said shelf providing support for the feet of said plate and having a removable stop limiting the oscillation of said plate to a range of movement in which, with said stop in place, said plate is precluded from registration of the wings of said keyhole slot with the T-head of said fitting.

3. The combination with a dropleaf shelf centrally provided with a non-circular aperture, of a mounting fitting having a generally circular shank terminating in a shoulder engaging the upper surface of the shelf, said fitting being provided with a non-circular boss projecting beyond said shoulder complementary to and disposed in the shelf aperture aforesaid, said fitting bearing a T-shaped head capping said shank and supported thereby in spaced relation to the shelf, a mounting plate having means for the universal attachment of typewriters thereto and centrally provided with a keyhole slot adapted in one pivotal position of said plate respecting said shelf to detachably receive said T-shaped head, said slot having a generally circular central portion about which said plate has bearing margins engageable with the shank of said fitting to position said plate for oscillation about the fitting upon said shelf.

4. The device of claim 3 in further combination with yieldable cushion feet attached to said plate and movable therewith respecting the shelf, said feet being adapted to retain frictionally the position of adjustment of the plate respecting the shelf while cushioning the transmission of typewriter vibration.

5. The device of claim 4 in further combination with stop means detachably screwed to the shelf and positioned in the path of oscillation of the plate respecting the shelf whereby to limit the range of said oscillation, said slot having wing portions registrable with the T-head of the fitting only in a position outside of such range.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
2,715	Fowler	July 11, 1842
79,543	Bigelow	July 7, 1868
782,158	Miller	Feb. 7, 1905
810,416	Johnston et al.	Jan. 23, 1906
1,272,678	Kroll	July 16, 1918
1,814,998	Yocum	July 14, 1931
1,867,206	Brady	July 12, 1932
2,316,756	Balster	Apr. 20, 1943
2,355,922	Minero	Aug. 15, 1944
2,359,002	Ryther	Sept. 26, 1944
2,470,165	Hartzler	May 17, 1949