Sept. 15, 1931. H. J. MUHLFELD 1,823,753

TYPEWRITER FASTENER

Filed Nov. 19, 1930

Fig. 1.

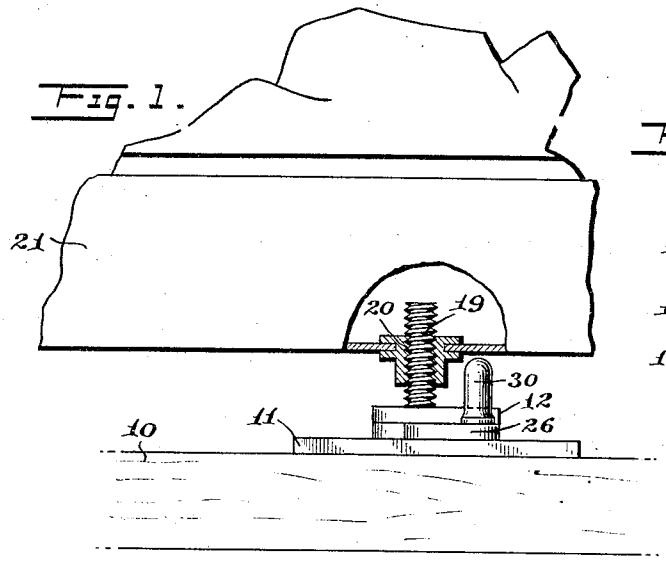


Fig. 5.

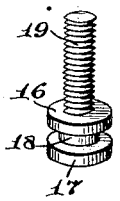


Fig. 2.

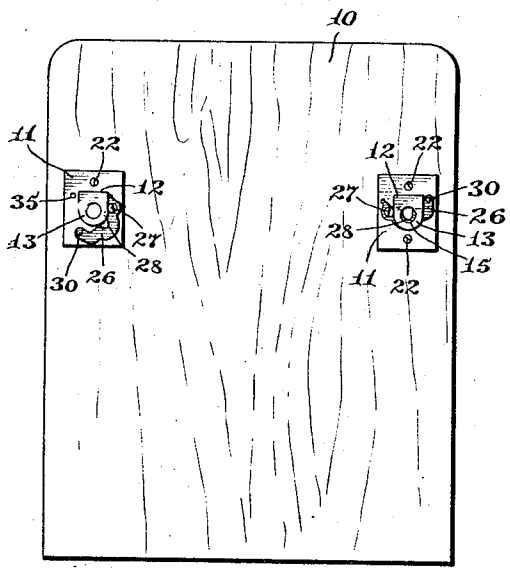


Fig. 3.

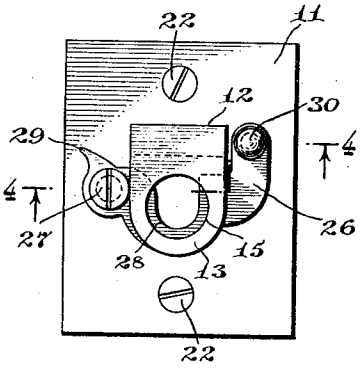


Fig. 4.

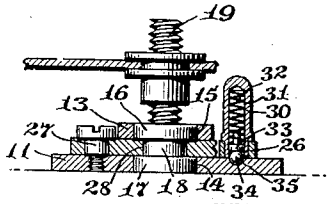
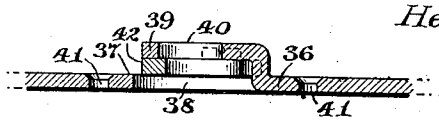


Fig. 6.



WITNESSES

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TYPEWRITER FASTENER

Application filed November 19, 1930. Serial No. 496,782.

The invention has for an object to provide means for readily securing a typewriter to a desk or table.

Another object of the invention is to provide plates secured to the desk or table having openings for receiving flanges on studs depending from the typewriter, the plates having locking means for engaging the flanges on the studs.

The invention also has for an object to provide the plates with a flange substantially parallel with the body of the plate, the flange having an opening for receiving a flange on the stud and the flange on the stud being engageable by the locking means on the plate below the flange on the plate.

Still another object of the invention is to provide the plate with an opening and a flange disposed above the plate and parallel therewith, a locking member being pivoted to the plate movable between the plate and the flange thereon for engaging the stud at its flange. The locking member is preferably provided with a spring-pressed member for engaging the plate at a recess therein, the locking member being secured by this means.

Preferably the plate with its flange is cut and stamped from a sheet of metal to form the opening in the plate and the opening in the flange and to bend the flange to a position parallel with the plate and spaced therefrom. It will also be understood that the top of the desk or table may be made of metal with the flanges cut and stamped from the top of the desk or table to form integral flanges.

Additional objects of the invention will appear in the following specification in which the preferred form of the invention is described.

In the drawings similar reference characters refer to similar parts in all the views, of which

Figure 1 is a sectional view illustrating a fragment of a table and a typewriter and showing the improved means for securing the typewriter to the table,

Figure 2 is a plan view of the typewriter table on a smaller scale showing the fastening means,

Figure 3 is an enlarged view illustrating one of the fastening means which are secured to the typewriter table,

Figure 4 is a sectional view on the line 4—4 of Figure 3,

Figure 5 is a perspective view illustrating one of the studs which depend from the typewriter, and

Figure 6 is a sectional view illustrating the modified form of the invention.

By referring to the drawings it will be seen that to the typewriter table 10 there are secured two plates 11, each of these plates 11 having an upwardly extending portion 12 from which extends a flange 13 which is disposed substantially parallel with the body of the plate 11. There is an opening 14 in the body of the plate 11 and there is also an opening 15 in the flange 13, the opening 15 being disposed above the opening 14, and in the construction illustrated in Figures 1, 2, 3 and 4 the opening 14 is substantially the same size as the opening 15. These openings 14 and 15 are provided for receiving flanges 16 and 17 on a stud 18 which has a threaded screw 19 secured in a threaded orifice 20 in the typewriter 21. It will be understood that the plates 11 may form parts of a top of a table.

It will be understood that preferably there are two of these plates 11 secured to the top of the table 10 by means of the screws 22, the plates 11 being spaced apart. There are also preferably two of the studs 18 secured by means of threaded screws 19 to the typewriter 21 so that the studs 18 will depend from the typewriter, permitting the flanges 16 and 17 on each of the studs 18 to pass through the openings 15 in the flange 13, one of the flanges 17 being disposed in the opening 14 and the other flange 16 being disposed in the opening 15 when the typewriter comes to rest on the flange 13.

As a means for securing the studs 18 in position with their flanges 16 and 17 in the openings 15 and 14, and with the flange 16 fitting the opening 15 to prevent any lateral movement of the studs relatively to the plates

11, locking members 26 are provided which are pivoted at 27, one to each of the plates 11, the locking members 26 having cut-out portions 28 so that the locking members may be disposed around the studs 18 with portions engaging the lower face of the flange 16 and the uper face of the flange 17. By this means any movement of the typewriter relatively to the table 10 is prevented inasmuch as the engagement of the locking member 26 with the flange 17 prevents any upward movement of the typewriter relatively to the table 10 and the engagement of the sides of the flange 16 with the flange 13 at its opening 15 prevents any lateral movement of the typewriter relatively to the table 10.

The rear of the locking member 26 is provided with a tongue 29 which is adapted to engage the plate 11 at its upwardly extending portion 12 and thereby limit the outward movement of the locking member 26 relatively to the flange 13. The locking member 26 also has a handle 30 which is hollow and is open at its bottom and has a thread meshing in a threaded opening 31 in the locking member 26. Disposed in the handle 30 there is a spring 32 which serves to press a plunger 33 down against a ball 34, this ball being positioned to extend into a recess 35 in the plate 11 when the locking member is moved to the position indicated in Figure 3.

In the modified form of the invention illustrated in Figure 6 of the drawings, the plate 36 is stamped to cut the plate 36 at 37, which forms an opening 38 in the plate 36 similar to the opening 14 in the plate 11 and has a bent-up portion which forms a flange 39 similar to the flange 13 in the form of the invention illustrated in Figures 1, 2, 3 and 4. At the same time this portion forming the flange 39 is cut away at 40 to form an opening similar to the opening 15 in the flange 13. Cut-out orifices 41 are also made in the plate 36 at the same operation. The modified form of the invention illustrated in Figure 6 is used in the same manner as is the form illustrated and described in connection with the other figures, the locking member being shown at 42 in the modified form of the invention in Figure 6. It is obvious that the plates 36 may form a continuation of a metal top of a desk and be integral therewith. When this is the case, preferably two flanges 39 will be stamped-up from the table top, each flange having an opening 40.

What is claimed is:

1. In a fastener for typewriters, a plate having an opening with a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter and having two flanges for disposal in the openings respectively, and a locking means for movement between the plate and the flange for disposal between the flanges on the stud.

2. In a fastener for typewriters, a plate having an opening with a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter having a flange for movement through the opening in the flange on the body of the plate for disposal in the opening in the body of the plate, and a locking member for movement between the plate and the flange for disposal at a face of the flange on the stud.

3. In a fastener for typewriters, a plate having an opening and a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter having two flanges spaced apart, one for disposal in the opening in the body of the plate and the other flange on the stud fitting the opening in the flange on the plate for holding the stud against lateral movement, and a locking member for movement between the flanges on the stud.

4. In a fastener for typewriters, a plate having an opening with a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter having a flange for movement through the opening in the flange on the body of the plate for disposal in the opening in the body of the plate, and a locking member pivoted to the plate for movement between the plate and the flange for disposal at a face of the flange on the stud.

5. In a fastener for typewriters, a plate having an opening with a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter having a flange for movement through the opening in the flange on the body of the plate for disposal in the opening in the body of the plate, and a locking member pivoted to the plate for movement between the plate and the flange for disposal at a face of the flange on the stud, the locking member having a rearwardly extending tongue for engaging the plate to limit the movement of the locking member relatively to the flange on the plate.

6. In a fastener for typewriters, a plate having an opening and a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter having two flanges spaced apart, one for disposal in the opening in the body of the plate and the other flange on the stud fitting the opening in the flange on the plate for holding the stud against lateral movement, and a locking member pivoted to the

plate for movement between the plate and its flange for disposal between the faces of the flanges on the stud.

7. In a fastener for typewriters, a plate having an opening with a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter having a flange for movement through the opening in the flange on the body of the plate for disposal in the opening in the body of the plate, and a locking member pivoted to the plate for movement between the plate and the flange for disposal at a face of the flange on the stud, there being a recess in the plate, there being a recess in the locking member, a member in one of the recesses, and resilient means for extending the last mentioned member from its recess for insertion in the other recess.

8. In a fastener for typewriters, a plate having an opening with a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, a stud adapted to depend from a typewriter having a flange for movement through the opening in the flange on the body of the plate for disposal in the opening in the body of the plate, and a locking member pivoted to the plate for movement between the plate and the flange for disposal at a face of the flange on the stud, an upwardly extending handle on the locking member, there being a recess in the locking member extending into the handle, there being a recess in the plate, a member in the recess in the locking member for extending into the recess in the plate, and a resilient means in the first mentioned recess for holding extended the member in the first mentioned recess.

9. In combination with a table and a typewriter, two plates secured to the table, each plate having an opening and a flange parallel with the body of the plate, there being an opening in the flange over the opening in the body of the plate, two studs depending from the typewriter, each stud having two flanges spaced apart, one for disposal in an opening in the body of a plate and the other flange fitting the opening in the flange on the plate for holding the studs and the typewriter against lateral movement relatively to the table, and locking means on the plates for movement between the flanges and their studs for disposal between the flanges on the studs respectively.

10. In a fastener for typewriters, a plate having a portion stamped and bent-up to form a flange parallel with the body of the plate, there being an opening in the flange, a stud adapted to depend from a typewriter having a flange for movement through the opening in the flange on the body of the plate for disposal in the opening in the body of the plate formed by its cut-out portion, and a locking member for movement between the plate and its flange for disposal at a face of the flange on the stud.

11. A metal table top having two portions spaced apart, the two portions being stamped and bent up to form two flanges substantially parallel with the horizontal plane of the table top, there being an opening in each flange, two studs adapted to depend from a typewriter, each stud having a flange for movement through the opening in a flange and locking members for movement between the table top and the flanges for disposal at faces of the flanges on the stud.

Signed at New York city, in the county of New York and State of New York, this 18th day of November, 1930.

HENRY JOHN MUHLFELD.