Jan. 2, 1923. 1,440,792

E. A. PETERSON.
TYPEWRITING MACHINE.
FILED SEPT. 21, 1920.

Fig. 1.

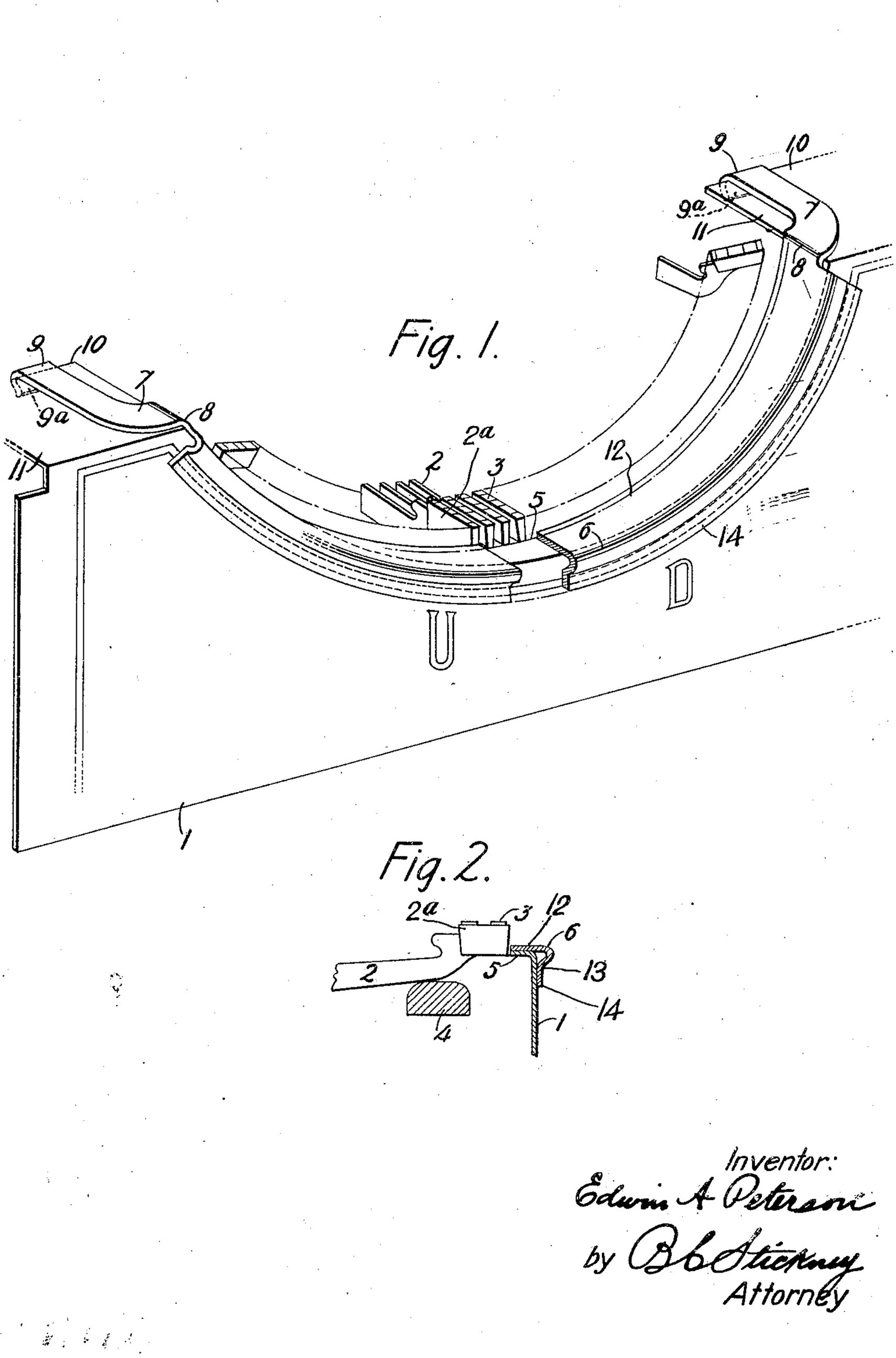

Fig. 2.

Inventor:
Edwin A Peterson
by B b Stickney
Attorney

Patented Jan. 2, 1923. 1,440,792

UNITED STATES PATENT OFFICE.

EDWIN A. PETERSON, OF MADISON, WISCONSIN, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

TYPEWRITING MACHINE.

Application filed September 21, 1920. Serial No. 411,717.

To all whom it may concern:

Be it known that I, EDWIN A. PETERSON, a citizen of the United States, residing in Madison, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Typewriting Machines, of which the following is a specification.

This invention relates to typewriting machines, and one of the principal objects thereof is to protect the front face of the typewriting machine frame from wear and defacement incidental to cleaning of the type faces.

In machines, such as the Underwood typewriter, to which my improvement is particularly applicable, the ink from the type, in the operation of cleaning the same, gets onto the edge part of the frame adjacent which the types rest in normal position, resulting in not only smearing the same, but in removing the gloss and gradually eradicating the margin lines and destroying the name which is usually marked or stenciled just under the edge of the frame.

A feature of this invention consists in providing a ledge at the outer edge of the frame, so that when the type are brushed the face of the plate is protected by the ledge from the abrasive action of the brush strokes, and from the smearing of ink and dirt thereon.

More particularly, the invention, in one embodiment thereof, consists in providing a separate attachable and detachable cover-plate carrying said ledge, and having an upper flange extending rearwardly to overlie and protect a rearwardly-extending upper edge part of a front frame plate terminating adjacent and at the front of the types, and having a lower protective and strengthening flange at the front of the frame plate, said ledge preferably being formed by a U-shaped bend between and joining the two flanges.

Other features and advantages will hereinafter appear.

In the accompanying drawings,

Figure 1 is a perspective view of an Underwood typewriting machine, showing my improvement applied thereto.

Figure 2 is a sectional view thereof.

Referring to the drawings, the frame of the usual Underwood typewriting machine includes a front frame plate 1, this frame plate being cut away so as to form a substantially semicircular opening, providing an arcuate upper edge on the front frame plate. The type-levers 2, which normally occupy a substantially horizontal position in an arc of a circle and at their forward ends have type-heads 2^a carrying types 3, rest, when in normal position, upon a supporting member 4, shown in Figure 2, and the type-heads 2^a at this time lie adjacent and just to the rear of the inner edge of the arcuate upper edge part 5 of the front plate, with the types 3 exposed upwardly at a slight elevation above the rearwardly-turned arcuate upper edge part 5 of the front plate 1. In order to protect the front face of the plate 1, I provide a ledge 6 at the outer top edge thereof, and this ledge 6 may be formed integral with the plate 1 or it may constitute a separate cover-plate, which may be attached to the frame in any suitable manner. When a separate cover-plate is used, I prefer to form the same as indicated in Figure 1, in which said cover-plate has its ends 7 bent at 8, and further bent at 9 to form hooks or catches 9^a which may hook over the rear edges 10 of the rearwardly-turned upper lateral parts 11 of the machine frame plate 1. In both constructions, it is preferable that the word "Underwood", which is usually put on below the top edge of the frame plate, be placed a little bit lower than the position usually occupied.

The arcuate forwardly-projecting overhanging shelf or ledge 6 is preferably formed, as shown in the drawings, by a transversely U-shaped bend or loop. In the form of the invention illustrated in the drawings, in which a separate attachable and detachable cover-plate is provided, the arcuate U-shaped ledge 6 has its upper leg extended rearwardly to form an upper flange 12 overlying and protecting the rearwardly-turned arcuate upper edge part 5 of the front frame plate 1, and has its lower leg turned downwardly at 13 to form a lower flange 14 at

the front of the frame plate 1. The ledge 6 protects the lettered and ornamentally line front face of the front plate 1 from foreign matter resulting from cleaning the types 3, while the rear flange 12 not only protects the rearwardly-extending plate part 5 from foreign matter but also from abrasion which would result from accidental contact of the cleaning brush. The name "Underwood" is placed just below the lower edge of the downwardly-extending flange 14, as indicated in Figure 1 of the drawings, by the terminal letters U—D, so as to be shielded and protected by the ledge 6.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:

1. A front-strike typewriting machine having, in combination, type-levers normally occupying a substantially horizontal position and arranged in the arc of a circle with types on the forward ends thereof exposed upwardly, and a front frame plate provided with an arcuate upper edge adjacent the types at the front thereof and extending downwardly, said front plate being provided adjacent its upper edge with a forwardly-projecting shelf or ledge for protecting the front face of the front frame plate below said ledge from foreign matter resulting from cleaning the types.

2. In a front-strike typewriting machine having type-levers normally occupying a substantially horizontal position in the arc of a circle with types on their forward ends exposed upwardly, and having a front frame plate provided with an arcuate upper edge part terminating adjacent and at the front of the types and extending downwardly, the combination of an attachable and detachable cover-plate for the upper edge part of the front frame plate and having a forwardly-projecting overhanging shelf or ledge for protecting the front face of the front frame plate below said ledge from foreign matter resulting from cleaning the types.

3. In a front-strike typewriting machine having type-levers normally occupying a substantially horizontal position in the arc of a circle with types on their forward ends exposed upwardly, and having a front frame plate provided with an arcuate upper edge part terminating adjacent and at the front of the types and extending downwardly, the combination of an attachable and detachable cover-plate for the upper edge part of the front frame plate and having a forwardly-projecting overhanging shelf or ledge for protecting the front face of the front frame plate below said ledge from foreign matter resulting from cleaning the types, the cover-plate comprising a unitary device provided at its ends with catches for detachably engaging over the lateral upper edges of the front frame plate for detachably holding the cover-plate in place on the front frame plate.

4. In a front-strike typewriting machine having, in combination, type-levers normally occupying a substantially horizontal position and arranged in the arc of a circle with types on the forward ends thereof exposed upwardly, and a front frame plate having a substantially vertical part providing a front face and having an arcuate upper edge adjacent and at the front of the types, said front plate being provided adjacent its upper edge with a forwardly-rounded U-shaped overhanging shelf or ledge for protecting the front face of the front plate from foreign matter resulting from cleaning the types.

5. In a front-strike typewriting machine having type-levers normally occupying a substantially horizontal position in the arc of a circle with types on their forward ends exposed upwardly, and having a front frame-plate provided with an arcuate upper edge part terminating adjacent and at the front of the types, the combination of an attachable and detachable cover-plate seated on and supported by the upper edge part of the front frame plate for protecting said upper edge part of the frame plate from foreign matter resulting from cleaning the types and means for securing the cover-plate to the machine.

6. In a front-strike typewriting machine having type-levers normally occupying a substantially horizontal position in the arc of a circle with types on their forward ends exposed upwardly, and having a front frame plate comprising a substantially vertical lower part and a rearwardly-extending arcuate upper edge part terminating adjacent and at the front of the types, the combination of an attachable and detachable cover-plate seated on and supported by the rearwardly-extending upper edge part of the front frame plate for protecting said rearwardly-extending part of the front frame plate during the cleaning of the types.

7. In a front-strike typewriting machine having type-levers normally occupying a substantially horizontal position in the arc of a circle with types on their forward ends exposed upwardly, and having a front frame plate comprising a substantially vertical lower part and a rearwardly-extending arcuate upper edge part terminating adjacent and at the front of the types, the combination of an attachable and detachable cover-plate comprising an arcuate forwardly-rounded U-shaped overhanging shelf or ledge projecting forwardly beyond the vertical part of the front frame plate for protecting the front face thereof from foreign matter resulting from cleaning the types, an upper flange extending rearwardly from the

upper leg of the U-shaped ledge and overlying the rearwardly-extending upper edge part of the front frame plate for protecting said rearwardly-extending part of the frame plate during the cleaning of the types, and terminal catches on the cover-plate for detachably engaging over the upper edge of the front frame plate for removably holding the cover-plate in place on the front frame plate.

EDWIN A. PETERSON.

Witnesses:
KING N. BACON,
ANITA WILKE.