April 21, 1925. 1,535,055

B. C. STICKNEY

TYPEWRITING MACHINE

Filed May 27, 1921 4 Sheets-Sheet 1

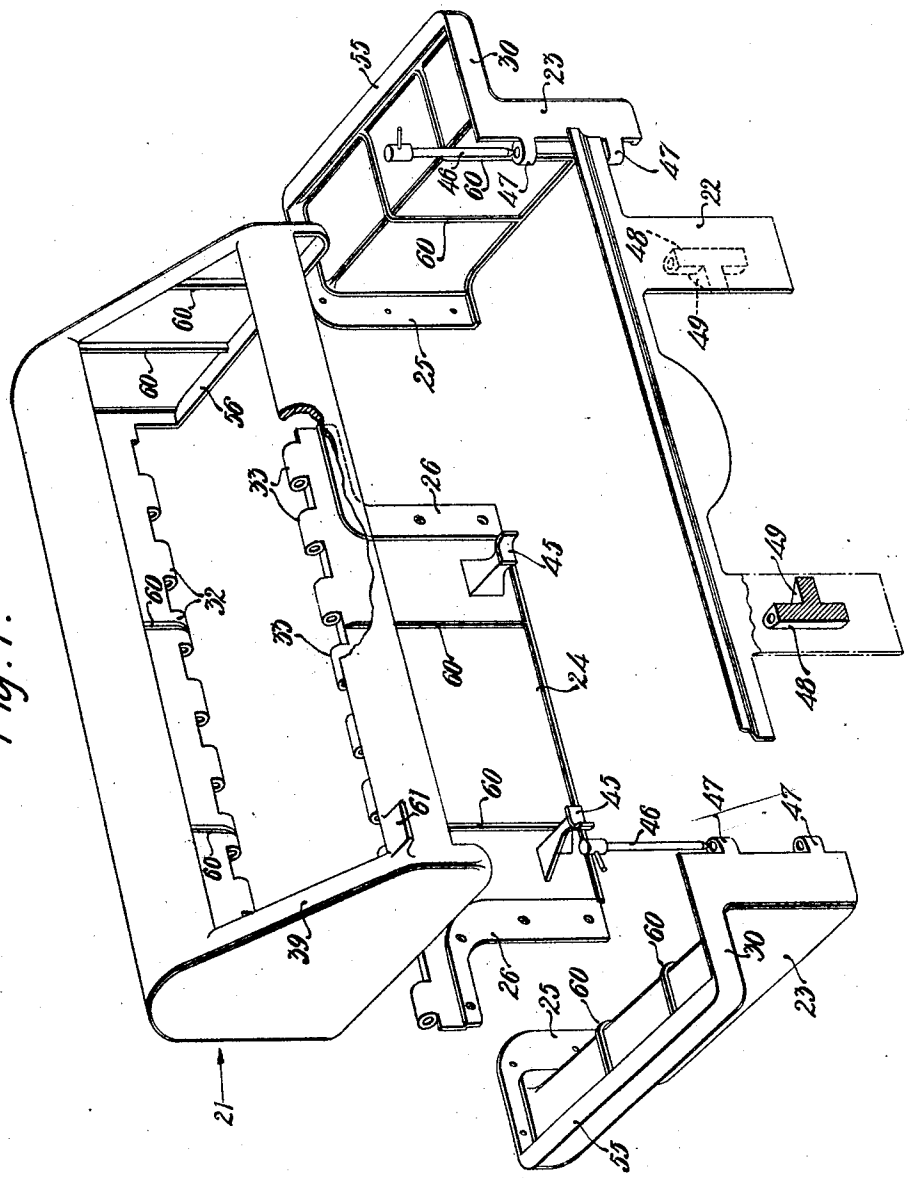


Fig. 1.

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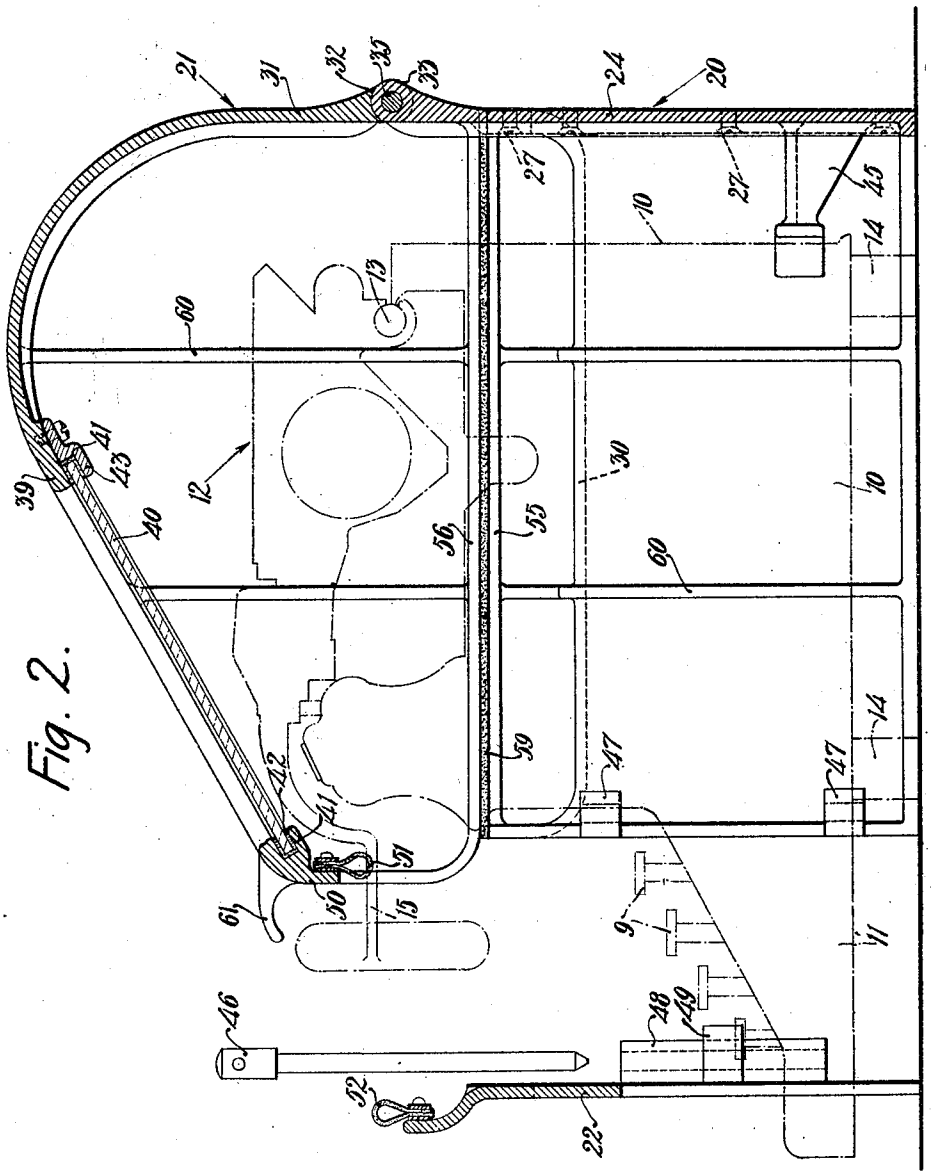


Fig. 2.

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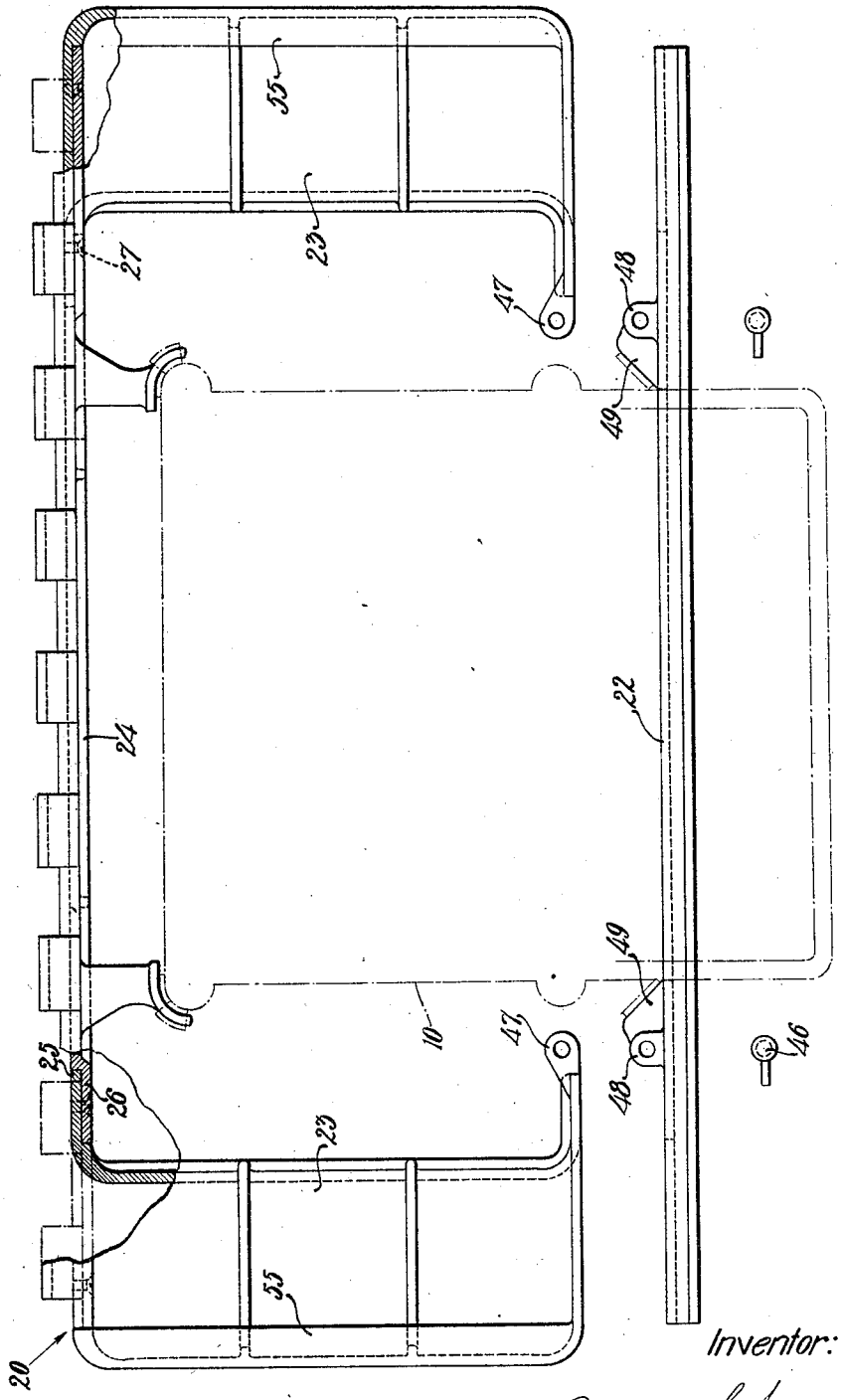


Fig. 3.

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Burnham B. Stickney

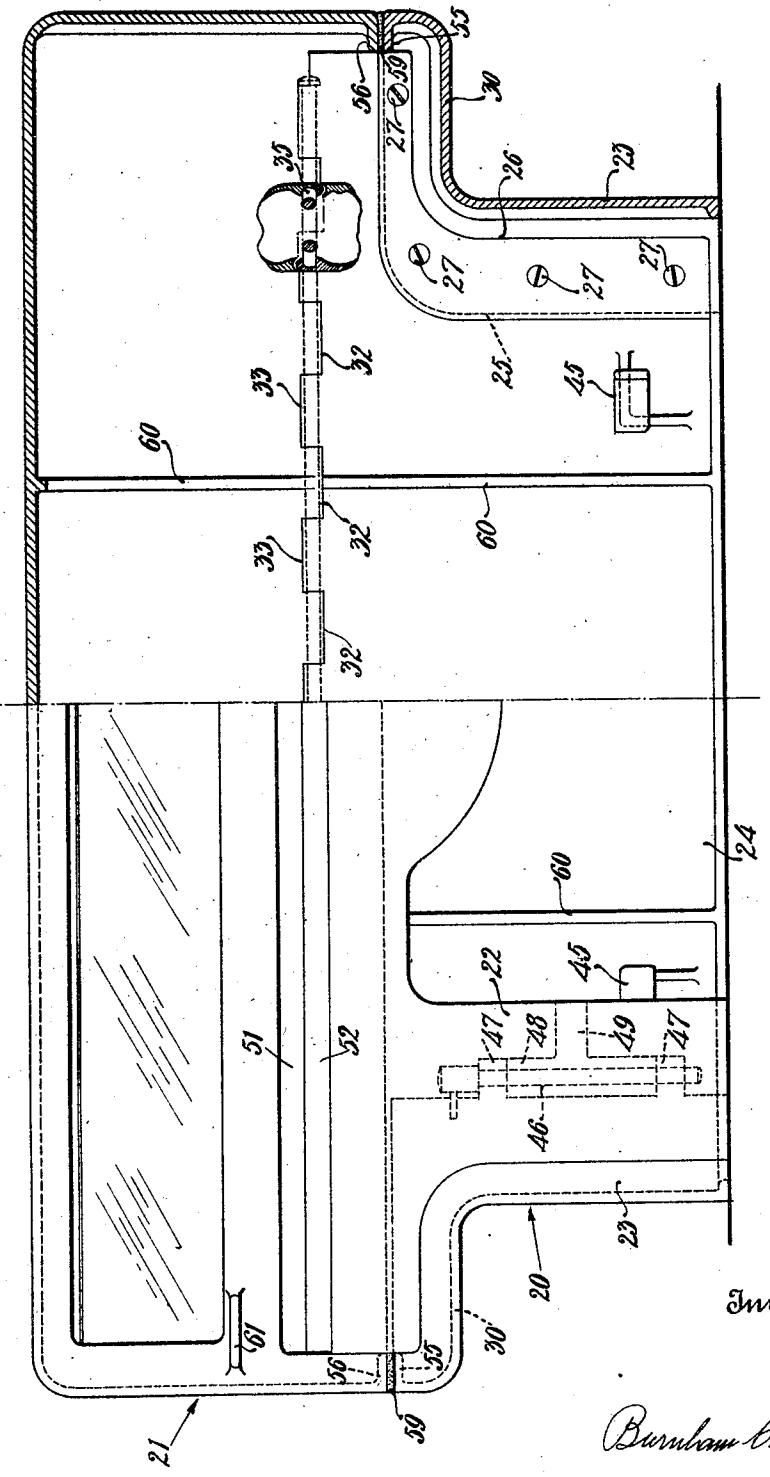
April 21, 1925. 1,535,055

B. C. STICKNEY

TYPEWRITING MACHINE

Filed May 27, 1921 4 Sheets-Sheet 4

Fig. 4.



Inventor

Burnham C. Stickney

Patented Apr. 21, 1925. 1,535,055

UNITED STATES PATENT OFFICE.

BURNHAM C. STICKNEY, OF ELIZABETH, NEW JERSEY, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

TYPEWRITING MACHINE.

Application filed May 27, 1921. Serial No. 473,018.

To all whom it may concern:

Be it known that I, BURNHAM C. STICKNEY, a citizen of the United States, residing in Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Typewriting Machines, of which the following is a specification.

This invention relates to noise-deadening casings or hoods for typewriting machines, and is of the same general type disclosed in my co-pending application, Serial No. 429,617, filed December 10, 1920. The invention comprises, in combination with a typewriting machine, a sound-deadening casing or hood for enclosing the noise-producing parts of the machine, while the keys and other parts of the machine used in its operation project from the casing or hood.

It is one feature of this invention to provide a die-cast hood which can be easily and cheaply produced.

Another feature of this invention is the construction of the hood in several parts, so that it may be knocked down or disassembled to enable the parts to be packed within a minimum of space for convenience in shipping, and which permits rapid and easy re-assembling. For this purpose, the hood comprises a cover part and a body part, the former being readily detachable from the latter, and the body part comprises, front, back and side members which are releasably connected to permit the disassembling of the body part. The cover and the various parts of the body are separate die-castings and so formed that, when assembled, the hood presents a smooth, neat appearance. The cover is further provided with a transparent plate for permitting the machine within the casing to be viewed, and said plate is also releasably mounted to permit its withdrawal for separate packing, or for replacement.

Other features and advantages will hereinafter appear.

In the accompanying drawings,

Figure 1 is a perspective view of the silencing hood, the parts being shown disassembled.

Figure 2 is a vertical section of the hood applied to an Underwood standard typewriting machine, the front plate being shown detached from the casing.

Figure 3 is a top plan view of the body part of the hood, the front plate being shown detached from the casing.

Figure 4 is a front elevation, partly sectioned, of the assembled hood.

The Underwood standard typewriting machine comprises a main frame 10 and an extension 11 of said frame, within which extension are positioned the usual banks of type-keys 9, the machine standing on feet 14, which are usually of rubber. The machine carries a letter-feed carriage 12, supported on a front rail (not shown) and a rear rail 13 on the main frame, and is provided with a line-space handle 15, which projects forwardly and is bent downwardly for a purpose to be hereinafter described.

For enclosing the machine to deaden the sound produced in typewriting, there is provided a sound-deadening casing or hood which comprises, in general, a lower body part 20 and an upper cover part 21, the body part comprising a front plate 22, end members 23, and a rear plate 24, all of which are separate die-cast pieces. The end members 23 are provided with rear flanges 25, to the inside surfaces of which is fastened, preferably by screws 27, the back plate 24 by means of inwardly-extending members 26 (see Figures 1 and 3). By this arrangement, the outer surface of the back plate 24 is flush with the outer surfaces of flanges 25, and thus forms a smooth exterior without projections. The end members 23 are provided with horizontal extensions 30, over which the carriage travels to the right and left, said extensions projecting laterally to either side beyond the limits of travel of the carriage. A rear wall 31 of the cover 21 is hingedly connected to the back plate 24 by means of lugs 32 having perforations at their ends forming bearings, the lugs 32 on the cover engaging between perforated lugs 33 on the back plate 24, the perforations of both sets of lugs forming one long, continuous bearing for a releasable bolt 35, which may be headed at one end and provided with a nut (not shown) at the other end after it is passed through the lugs 32 and 33 to hold the cover to the body part. The cover is a one-piece die-casting and is provided with a forwardly and downwardly sloping wall 39, having an opening behind which is seated a transparent plate 40, held in grooves 41, formed by flanges 42 and 43 spaced from the rear surface of the cover.

One of said flanges, here shown as flange 43, may be made removable to facilitate withdrawal and replacement of the plate 40. The cover part and the various members of the body part of the casing are provided on their inside surfaces with reinforcing ribs 60.

After the hood is set up or assembled, the machine may be inserted through the large front opening between the end members, and positioned by abutments 45 cast integral with the back plate. To close the openings left between the machine and the casing at the front, the front plate 22 is attached to end members 23 by means of bolts 46, passing through aligned bearings 47 formed integral with the end members, and through bearings 48 formed integral with the front plate 22 and occupying the space between bearings 47 to form therewith one long, continuous bearing. The front plate 22 is provided with abutments 49 to engage the frame 10 at the front.

The heights of front plate 22 and front wall 50 of the cover, are such that, when the cover is closed, a longitudinal slot is formed at the front through which various operating members, such as the line-space handle 15, project, for which purpose the line-space handle is extended forwardly and bent downwardly, as previously described. It is necessary to close this slot to prevent sound from passing therethrough, and for this purpose there are provided cushion strips 51 and 52, which may be formed of loops or folds of suitable material such as plush, felt, or soft leather, the two-ply margins of the cushion strips being fixed to the inner surfaces, adjacent the co-operating edges, of front plate 22 and the front wall 50 of the cover.

The extensions 30 of the end members 23 terminate at the sides in horizontal ledges 55, forming supports upon which rest horizontal flanges 56 at the sides of the cover. Layers of sound-deadening material 59 are interposed between the ledges 55 and flanges 56 at each side of the hood to prevent the transmission of sound through the sides of the hood at the meeting edges of the cover and body parts.

A finger-piece 61 is provided at the left-hand end of the cover, by which the latter may be swung up to open the hood.

In knocking down, or, in other words, disassembling the device for shipping purposes, the cover part may be detached from the body part by withdrawing bolt 35; by removing flange 43, transparent plate 40 may be withdrawn and separately packed; and the body part may be disassembled by withdrawing bolts 46 to release the front plate 22, and unscrewing back plate 20 from the end members 23. It is thus possible to pack the casing so that it occupies a minimum of space and may be conveniently shipped. It will be understood that the rear wall is secured to the side walls by screws to facilitate detachment therefrom only when the casing is to be packed; in other words, the rear wall is secured semi-permanently to the side walls; and that the means for fastening the front wall is of such construction to permit it to be readily and quickly detached from the casing, at will, while the latter is in its set-up or assembled condition.

It will be understood that the casing may readily be lined with any suitable sound-deadening material, such as felt.

The following claims are directed to inventive organizations of body construction that are not disclosed in my co-pending application, No. 381,259, filed May 14, 1920.

This application discloses improvements upon the sound-deadening inventions patented to John Waldheim, No. 1,499,709, July 1, 1924, and upon the inventions shown in my applications, No. 429,617, filed December 10, 1920, and No. 468,257, filed May 10, 1921, and in the application of Allard, No. 469,114, filed May 13, 1921, and in the application of John Waldheim, No. 466,820, filed May 4, 1921; the claims herein being limited to features of body construction not shown in any of said patent and applications.

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 knock-down sound-deadening casing for typewriting machines, having upper overhanging side portions to accommodate the travel of the carriage, said casing comprising a body part having front, back and side walls, and a cover part hingedly and releasably connected to said body part to permit the cover to be detached from the body part, said walls being releasably connected to permit separation thereof in disassembling the body part, said side walls having upright portions adjacent the sides of the machine frame and horizontal floor portions for said overhanging side portions, and having flanges along the front and rear edges of both the upright and horizontal portions for reinforcement and to provide parts to which the front and back walls may be readily secured.

2. A knock-down sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising at each side a side member having an upright wall adjacent the side of the machine, a floor extending outwardly from the upper edge of said wall to accommodate the carriage in its traveling movements, and flanges extending at right angles from the rear edges of

said upright wall and said floor, and a rear wall to be attached at one edge to the flange on said upright wall and having a lateral projection near its upper edge to co-operate with the flange on said floor.

3. A sound-deadening casing for typewriting machines, having upper overhanging side portions to accommodate the travel of the typewriter-carriage and comprising a body part having end members, a front plate, and a back plate, and a cover part hingedly and releasably connected to said body part to permit said cover part to be detached from the body part, said front plate being mounted on said end members, said end members formed of single die-castings having vertical walls, horizontal floors for said overhanging portions and flanges at the front and back, said back plate being formed of a single die-casting recessed on its back face to receive said back flanges, so that the outer surfaces of the back flanges and back plate form a continuous rear surface, said front plate being releasably secured to the front flanges of said end members to permit it to be readily attached or detached.

4. A sound-deadening casing for typewriting machines, having upper overhanging side portions to accommodate the travel of the typewriter-carriage and comprising a body part having end members with outwardly-extending portions constituting floors for said overhanging side portions, a front plate, and a back plate, and a cover part hingedly and releasably connected to said body part to permit said cover part to be detached from the body part, said end members having front and back flanges, said front plate and said back plate being releasably mounted on said member adjacent said front and back flanges, respectively, to permit disassembling of the body part, said back plate having inturned portions whereby it may be mounted on the inner surfaces of said back flanges, so that the outer surfaces of the flanges and back plate form a continuous rear surface.

5. A knock-down sound-deadening casing for typewriting machines, having upper overhanging side portions to accommodate the travel of the typewriter carriage and comprising a body part having front, back and side walls provided with upper outwardly-extending portions constituting floors for said overhanging side portions, said walls being separate die-castings shaped to fit closely together and being releasably connected to permit separation thereof in disassembling the body part, and a die-cast cover having at the lower edges of its side walls inwardly-extending flanges to rest on the outer ends of the floor portions of the side walls of the body part.

6. A sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising at each side a side member having an upright wall adjacent the side of the machine, a floor extending outwardly from the upper edge of said wall to accommodate the carriage in its traveling movements, and flanges extending at right angles from the rear edges of said upright wall and said floor, and a rear wall to be attached at one edge of the flange on said upright wall and having a lateral projection near its upper edge to co-operate with the flange on said floor, said flanges and the adjacent edges on the upright wall and lateral projection being so formed that, when placed together, they co-operate to furnish a smooth joint on the outer surface of the casing.

7. A knock-down sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising at each side a cast side member having an upright wall provided with stiffening ribs integral therewith, a floor extending outwardly from the upper edge of said wall to accommodate the carriage in its traveling movements, and a flange projecting from said side member and extending along the front and rear edges of said upright wall and around the edges of said floor, and a rear wall shaped to engage the portion of the flange at the rear of the side member and form with the side member a smooth joint.

8. A sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising at each side a side member having a side wall extending upwardly adjacent the side of the machine, a floor extending outwardly from the upper edge of said wall to form with the cover and extension to accommodate the travel of the typewriter-carriage, flanges extending at right angles from said side wall and said floor at the front and rear edges thereof and at the side edge of said floor, and a flange extending inwardly from the top of the flange at the side edge of said floor to provide a ledge to support the adjacent side of the cover, and a rear wall having lateral projections near its upper edge, the vertical and horizontal flanges on each side member being secured to the adjacent edges of the rear wall and to the lateral projections of the rear wall, respectively.

9. A sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising at each side a side member having a side wall extending upwardly adjacent the side of the machine, a floor extending outwardly from the upper edge of said wall to form with the cover an extension to accommodate the travel of the typewriter-carriage, flanges extending at right angles from said side wall and said floor at the rear edges thereof

and a cover-supporting ledge at the outer edge of said floor, and a rear wall having lateral projections near its upper edge, the vertical and horizontal flanges on each side member being secured to the adjacent edges of the rear wall and to the lateral projections of the rear wall, respectively, the flanges and the adjacent edges of the rear wall being so formed that, when assembled, smooth joints will be obtained on the outer surface of the casing.

10. A sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising inverted L-shaped end walls having flanges at the rear edges thereof and a die-cast rear wall having recesses on the rear face thereof to receive the flanges at the rear edges of said end walls, the rear face of said flanges being flush with the rear face of said rear wall, said rear wall having at its upper edge hinge members integral therewith, said cover having hinge members to co-operate with the hinge members on said rear wall and co-operating with the upwardly-projecting portions of the flanges of said end walls to close the upper portion of the casing in which the type-writer-carriage travels.

11. A sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising inverted L-shaped end walls having flanges at the rear edges thereof and a die-cast rear wall having recesses in its rear face at the edges thereof to receive the flanges at the rear edges of said end walls flush with the rear face of said rear wall, said rear wall having provisions for engaging the back of the frame of the machine for positioning the same and having at its upper edge hinge members integral therewith. said cover having hinge members to co-operate with the hinge members on said rear wall and co-operating with the upwardly-projecting portions of the flanges of said end walls to close the upper portion of the casing in which the typewriter-carriage travels.

12. A sound-deadening casing for a typewriting machine, having overhanging side portions to accommodate the travel of the typewriter-carriage, said casing comprising front, rear and side walls, said front wall having an opening to permit the insertion of the machine and being provided at each side of the opening with a pair of spaced lugs arranged vertically and having aligned openings therein, and a die-cast cover-plate for said front wall to extend across said opening and having at each side a rearwardly-extending lug to be inserted between the corresponding pair of lugs on the front wall of the casing and provided with an opening to be brought into alignment with the openings of these lugs to permit a bolt to be passed therethrough to secure the cover-plate in position, each of said lugs on the cover-plate being provided with a cam-surface to engage the front of the frame of the machine to effect a proper relative positioning of the machine and the casing.

13. A sound-deadening casing for a typewriting machine, having upper overhanging side portions and comprising side members forming parts of said overhanging side portions, a back secured to said side members in such a manner that a suitable tool must be used in attaching or detaching the same, said casing having an open front to permit the insertion of the machine which, when in position, has its keyboard projecting through said opening, a front to close said opening above and at the sides of said keyboard, and means, readily operable manually, for fastening said front on said casing.

14. A sound-deadening casing for a typewriting machine, comprising a base and a cover therefor, said base comprising at each side a side member having a side wall extending upwardly adjacent the side of the machine, a floor extending outwardly from the upper edge of said wall to form with the cover an extension to accommodate the travel of the typewriter-carriage, and flanges extending at right angles from said side wall and said floor at the rear edges thereof, and a rear wall having lateral projections near its upper edge, the vertical and horizontal flanges on each side member being secured to the adjacent side edges of the rear wall and to the lateral projections of the rear wall, respectively, by fastening means operable only from the inside of said casing and inaccessible when the machine is in the casing.

15. In a knock-down sound-deadening casing for a typewriting machine, comprising a body part and a cover; an integral side wall for the body part, comprising an upright portion, an outwardly-extending floor to form with the cover a chamber to accommodate the travel of the carriage, and a continuous flange projecting inwardly and extending upwardly along the front edge of said upright portion, around the free edges of said floor, and down the rear edge of the upright portion, the flange, at the outer end of the floor, being bent over to form a cover-supporting ledge.

16. In a knock-down sound-deadening casing for a typewriting machine, comprising a body part and a cover; an integral side wall for the body part, comprising an upright portion, an outwardly-extending floor to form with the cover a chamber to accommodate the travel of the carriage, a continuous flange projecting inwardly and extending upwardly along the front edge of said upright portion, around the free edges of said floor, and down the rear edge of the upright portion, the flange, at the outer end

of the floor, being bent over to form a cover-supporting ledge, and re-enforcing ribs extending vertically on said upright portion and outwardly along said floor.

17. In a knock-down sound-deadening casing for a typewriting machine, comprising a body-part and a cover; an integral side wall for the body part, comprising an upright portion, an outwardly-extending floor to form with the cover a chamber to accommodate the travel of the carriage, a continuous flange projecting inwardly and extending upwardly along the front edge of said upright portion, around the free edges of said floor, and down the rear edge of the upright portion, the flange, at the outer end of the floor, being bent over to form a cover-supporting ledge, and lugs on the flange at the front of the upright portion, and having aligned openings for connecting the side wall with the front wall of the casing.

18. In a knock-down sound-deadening casing, a back wall having lateral extensions near its upper edge and offset portions along its sides and the lower edges of the extensions, to form depressions to receive flanges on the side walls of the casing.

BURNHAM C. STICKNEY.

Witnesses:
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