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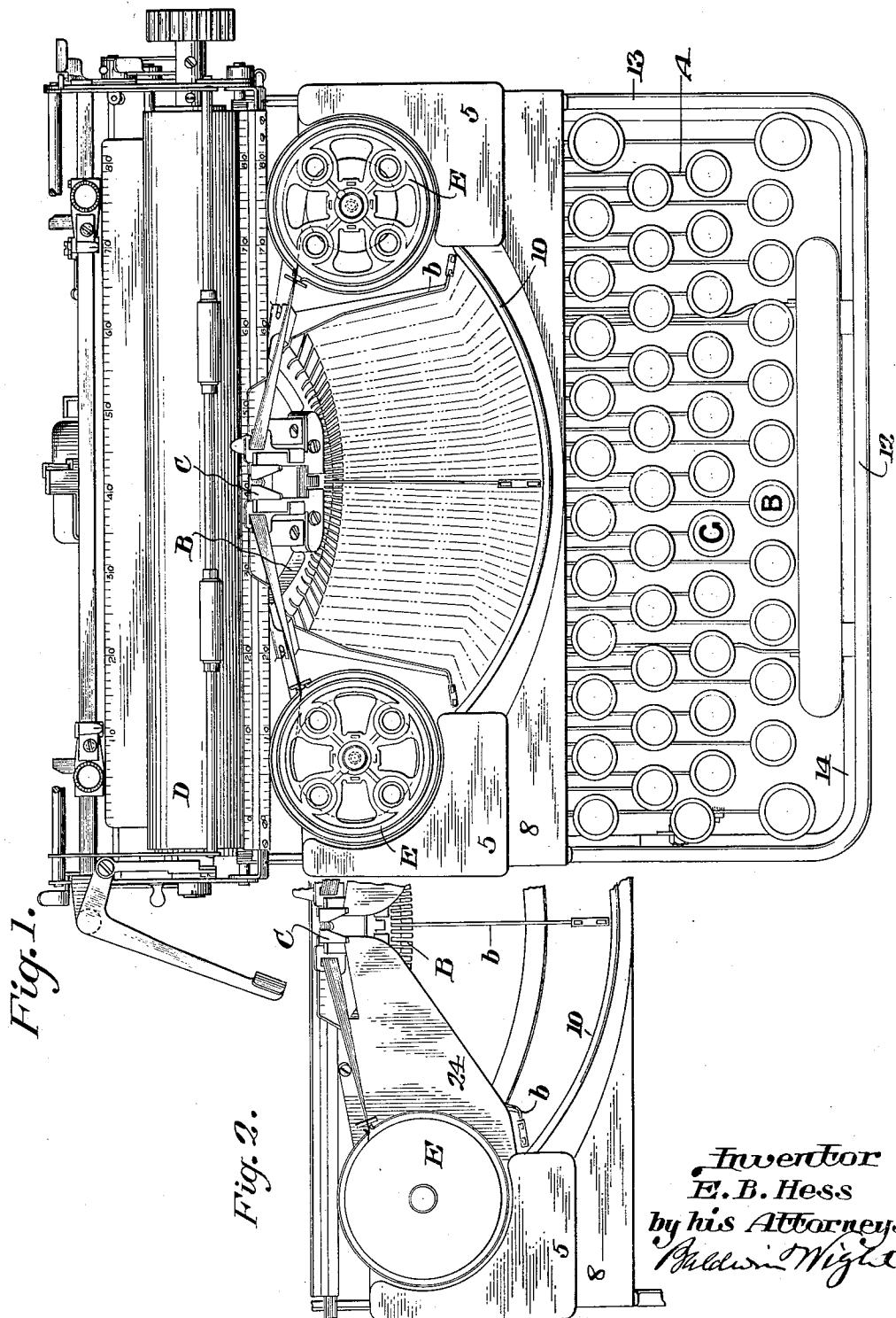
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E. B. HESS

TYPEWRITING MACHINE

Filed March 28, 1925

3 Sheets-Sheet 1



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TYPEWRITING MACHINE

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Fig. 3.

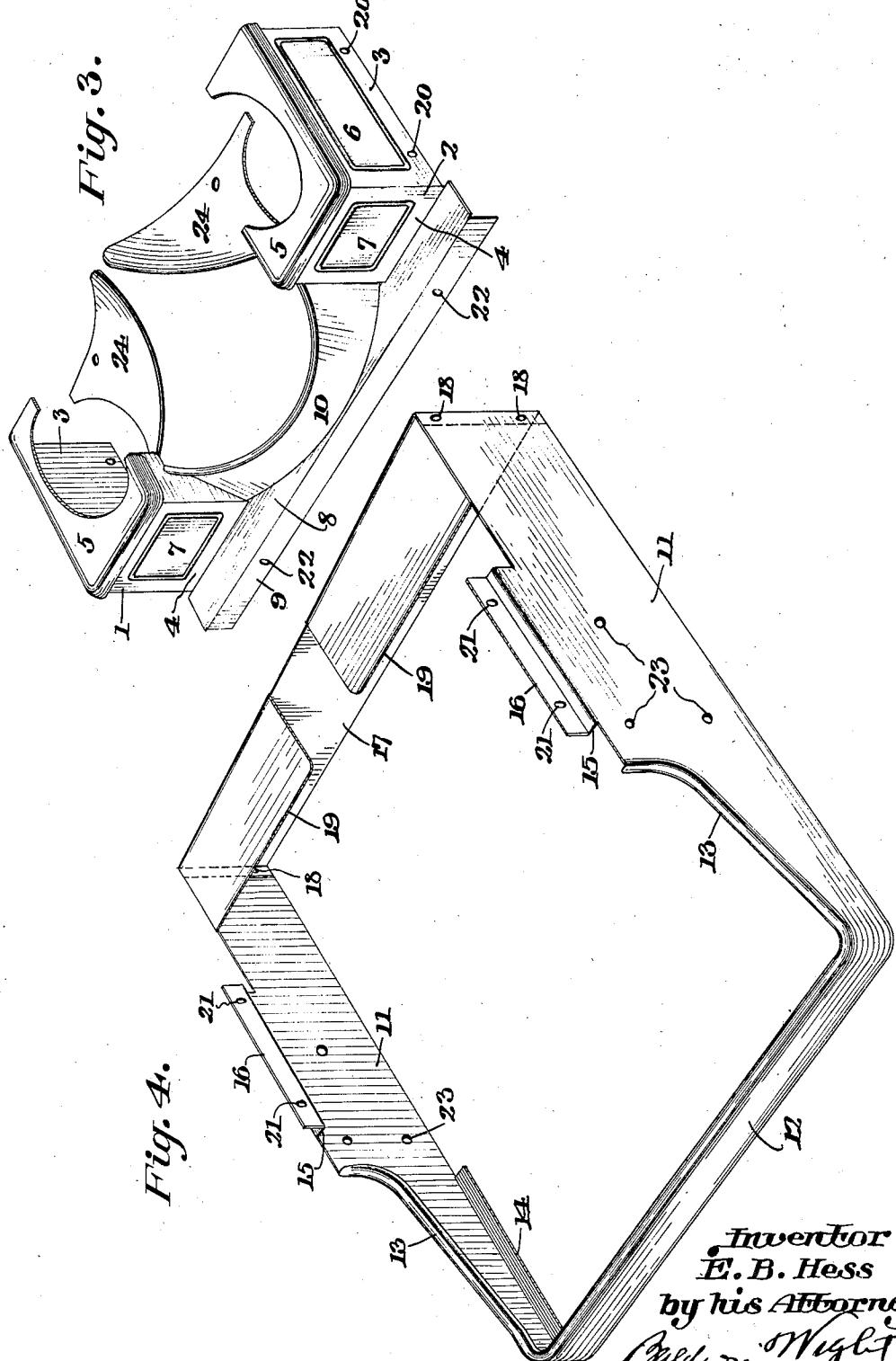


Fig. 4.

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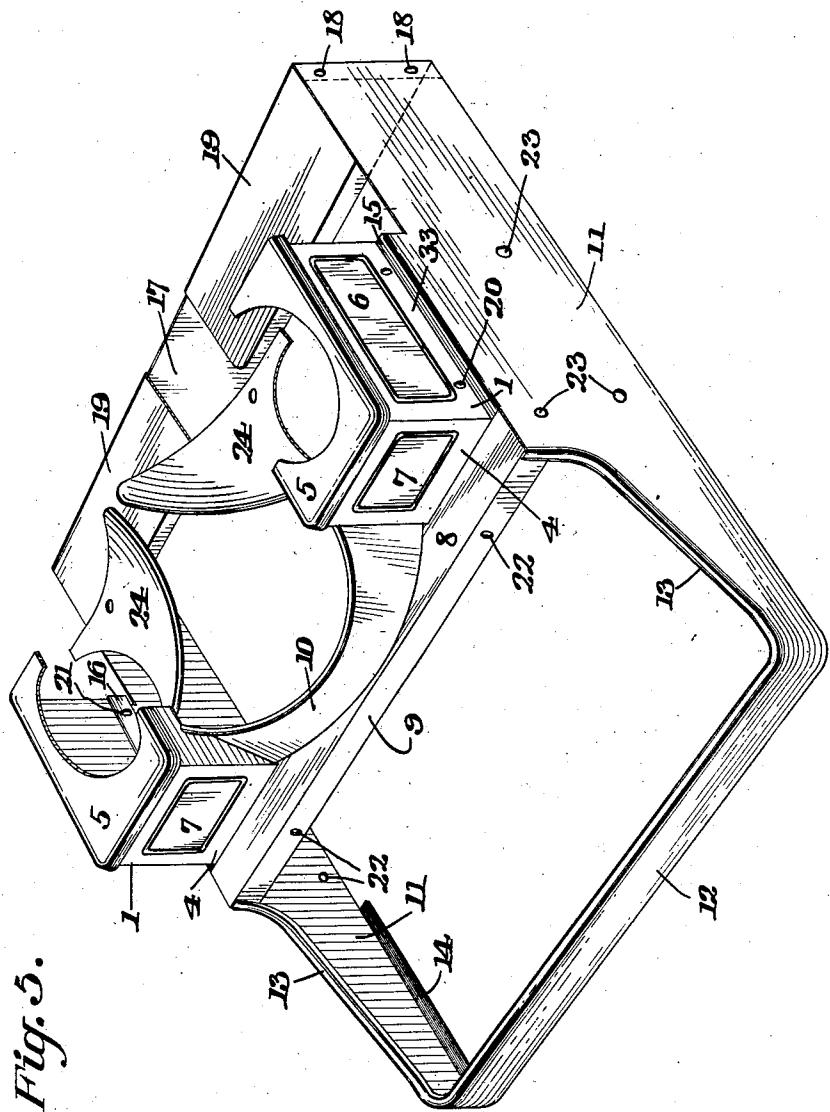
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## TYPEWRITING MACHINE

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3 Sheets-Sheet 3



*Fig. 5.*

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# UNITED STATES PATENT OFFICE.

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## TYPEWRITING MACHINE.

Application filed March 28, 1925. Serial No. 19,085.

Particularly in the manufacture of small portable machines it has been the general practice to employ a rather skeletonized frame wherein parts such as the ribbon spool 5 which are usually made of sheet metal project into positions where they can be easily damaged in the use of the machine. Furthermore there has not been adequate protection for the pivots of the type bars, their 10 links, and other moving parts against dust and dirt.

The invention herein disclosed is intended to provide a mask or enclosing frame, particularly for machines of this character, 15 which is constructed entirely independent of the main frame which supports the elements of the typewriting machine, and is adapted to be moved into position and fastened to said main frame. This mask protects the 20 ribbon spools and other instrumentalities from accidental bending or breakage.

Another object of the invention is to provide such a mask which will protect the various pivots of the type action from dust 25 and dirt, and in general tend to prevent entry of extraneous matter to the interior of the machine.

A further object of the invention is to provide a mask which will be ornamental in appearance and when in position will give the 30 machine a very pleasing appearance, rendering it very similar to standard machines so far as the outward appearance is concerned.

A still further object is to construct such a 35 mask of sheet metal and of a few pieces which can be assembled in its substantial entirety before being placed in position on the machine.

Further objects of the invention will be 40 apparent from the following detailed description and the appended claims.

In the drawings:

Figure 1 is a top plan view of a typewriting machine with the mask or protecting 45 frame in position.

Figure 2 is a similar view on a larger scale of one side of the machine particularly showing the dust sheds for the type bar pivots.

Figure 3 is a perspective view of one portion of the mask showing the part adjacent the ribbon spools and the rear of the keyboard and also illustrating the detached dust sheds for the type bar pivots.

Figure 4 is a perspective view of that por-

tion of the mask which surrounds the sides, front and rear of the machine.

Figure 5 is a perspective view of the whole mask in the assembled form in which it appears when positioned on the machine.

The invention is illustrated as applied to the Royal portable machine, but obviously in many features it is applicable to other machines of the same general type or character. There are shown supported by a main 65 frame, the usual instrumentalities of a typewriting machine including the keyboard A, type bar segment B, type bars b pivoted therein, type bar guide C, platen D and ribbon spools E. These parts in and of themselves, form no part of the present invention.

The portion of the mask or protecting frame shown in Figure 3 which encloses the upper front portion of the machine is made of sheet metal and preferably built up owing to the difficulty and expense of stamping it 70 from a single piece of sheet metal. It comprises two members 1 and 2, each having a side portion 3 and a front portion 4, preferably formed with panels. A top 5 is connected to the portions 3 and 4 and surrounds the side, front and a portion of the rear of the ribbon spool E. This top lies in a plane slightly above the top of the ribbon spool and preserves the latter from injury. It 75 also provides a suitable rest for the arm or hand of the typist when making erasures. The sides 3 and fronts 4 are preferably provided with panels 6 and 7 for the sake of improved appearance.

A plane strip 8 having a vertical flange 9 connects the two members 1 and 2 and they are also connected by a curved portion 10 inclined slightly toward the rear from the vertical and having their ends curved rearwardly and engaging the inner side of the members 1 and 2. These parts 8, 9 and 10 85 serve as dust guards particularly for the pivots of the front links of the type action and for the type bar heads.

The portion of the mask or protecting frame shown in Figure 4 is formed of two pieces. The sides 11 and front 12 are stamped out of a single piece of metal into the form shown. The front is narrower than 90 the sides and the upper edge 13 of the connecting part at each side as well as the upper edge of the front 12 is rolled or beaded as shown. The bottom of the front has an inturned flange 14 which extends rearwardly 95

along the sides to a point in rear of the keyboard. This strengthens the parts and avoids a rough edge at the under side of this portion of the frame.

5 At the top of each side is an inwardly projecting flange 15 having a vertical portion 16 for a purpose hereinafter mentioned. The rear of this portion of the mask is formed from a sheet metal plate 17 having 10 inturned flanges at its edges which are fastened to the rear ends of the sides 11 by fastenings indicated at 18. Two forwardly projecting portions 19 of the plate 17 cover the rear of the lower part of the machine 15 except for a small space at the center and serve as dust guards for portions of the machine in the rear of the type bar pivots.

In assembling the two main portions of the mask shown in Figures 3 and 4 into the 20 complete form shown in Figure 5, the side portions 3 engage the outside of the flanges 16 and are attached thereto by appropriate fastenings passing through the openings 20 in the sides 3 and the registering openings 25 21 in the flanges 16. This results in the sides 3 being slightly inset from the sides 11 of the lower portion, but the strip 8 and flange 9 extend outwardly to the sides 11.

When the completed mask is positioned 30 on the machine, it is fastened to the main frame by screws or other fastenings passing through the openings 22 in the flange 9 and openings 23 in the sides 11. The completed mask as shown in Figure 5 can be 35 placed on the machine by removing the rear plate 17, sliding the mask into position, fastening it to the frame and attaching the rear plate 17. Or the machine may be dropped into position in the lower portion of the 40 mask and the upper portion then attached thereto. The precise method of assembly is immaterial so far as the invention is concerned.

The members 24 appearing in Figs. 2, 3 45 and 5 are not a part of the mask, but are type bar dust guards attached to the type bar segment and adapted to protect the type bar pivots. They may be continuously curved or upwardly inclined members which taper 50 towards the ends adjacent the type bar guide. Either form is found especially desirable in small compact machines of the present type.

It is obvious that numerous detail changes 55 may be made in the precise embodiment without in any way departing from the spirit of the invention which is to be regarded as limited only by the scope of the appended claims.

60 I claim as my invention:

1. A protecting mask for typewriting machines comprising a lower portion adapted to encase the sides, rear and extreme front portion of the machine frame, and an upper 65 portion carrying ribbon housings, said parts

being structurally independent of the frame of the machine but adapted to be attached thereto.

2. A protecting mask for typewriting machines comprising a lower portion adapted 70 to encase the lower portion of the machine frame, an upper portion carrying ribbon housings, and a dust guard element connecting said housings at the front, said parts being structurally independent of the frame of 75 the machine but adapted to be attached thereto.

3. A protecting mask for typewriting machines comprising ribbon spool housings 80 which partially encase said spools but rise above the tops thereof, a dust guard element for the type bar heads when at rest and connecting the housings, and a lower dust guard element for a part of the type action, said lower element being connected to the housings and upper dust guard element and extending forwardly and downwardly therefrom, said parts being structurally independent 85 of the frame of the machine but adapted to be attached thereto. 90

4. A protecting mask for typewriting machines comprising a lower portion having an open back and stamped from sheet metal and having sides connected with a narrow front portion by inclined portions having rolled 95 upper edges, said lower portion also having an inwardly extending bottom flange along the front and adjacent portion of the sides, said parts being structurally independent of the frame of the machine but adapted to be 100 attached to the complete machine.

5. A protecting mask for typewriting machines comprising an upper unitary portion having ribbon spool housings, a dust guard connecting said housings and having a plain 105 portion with down-turned flange, and an upper dust guard element for the type bar heads also connecting said housings and having its ends curved rearwardly, said portion being structurally independent of the 110 frame of the machine but adapted to be attached thereto.

6. In a typewriting machine, a pair of dust guards, each guard comprising a plate attached at its outer end to the type segment 115 and rising upwardly and tapering inwardly towards the type guide.

7. A protecting mask for a typewriting machine comprising portions at the side and top of the machine frame adapted to prevent 120 the entry of extraneous matter into the interior of the machine, a front portion protecting the pivots of the type bar actions, and a pair of dust guards located in the rear of said front portion and over the type bar 125 pivots; in connection with a pair of dust guards located at the rear of the typewriting machine, said parts being structurally independent of the frame of the machine but adapted to be attached thereto. 130

8. A protecting mask for typewriting machines comprising a lower portion having an open back and stamped from sheet metal, said portion having sides connected with a narrow front portion by inclined portions having rolled upper edges, said lower portion also having an inwardly extending bottom flange along the front and adjacent portion of the sides, said parts being structurally independent of the frame of the machine but adapted to be attached to the complete machine, and a back adapted to be attached to the sides and having a top dust guard carried thereby.

5 9. In a typewriting machine having a platen and ribbon spools, a protecting mask having housings for said spools which lie in a plane slightly above the plane of the tops of the ribbon spools and do not overlie said spools, dust guard elements for the heads of the type bars and for the pivots of the type bar sections connecting said ribbon housings, the top of the platen and the housings lying in substantially the same horizontal plane and the housings acting as rests for the hand in making erasures, the mask being structurally independent of the frame of the machine but adapted to be attached thereto.

10 In testimony whereof, I have hereunto  
15 subscribed my name.

EDWARD B. HESS.