

March 6, 1945.

L. F. PERKINS

2,370,749

INTERCHANGEABLE TYPEWRITER CARTON

Filed Feb. 1, 1943

2 Sheets-Sheet 1

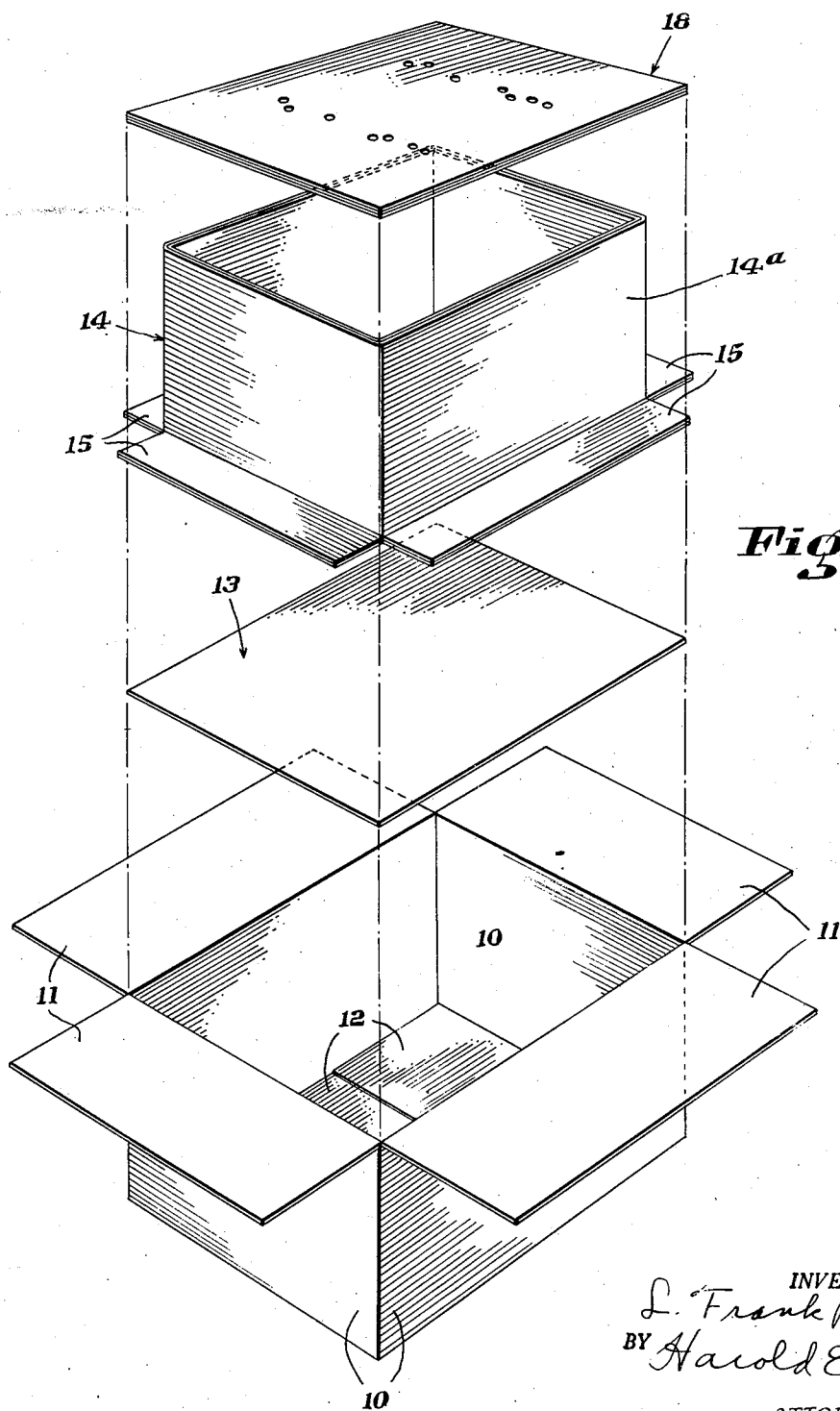


Fig. 1

INVENTOR.
L. Frank Perkins
BY *Harold E. Cole*
ATTORNEY

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Fig. 2

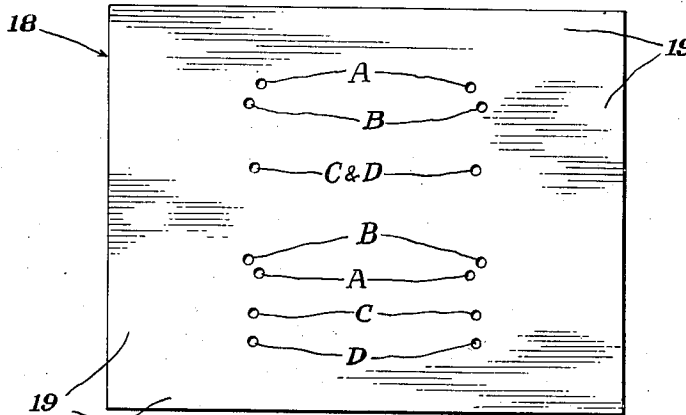


Fig. 3

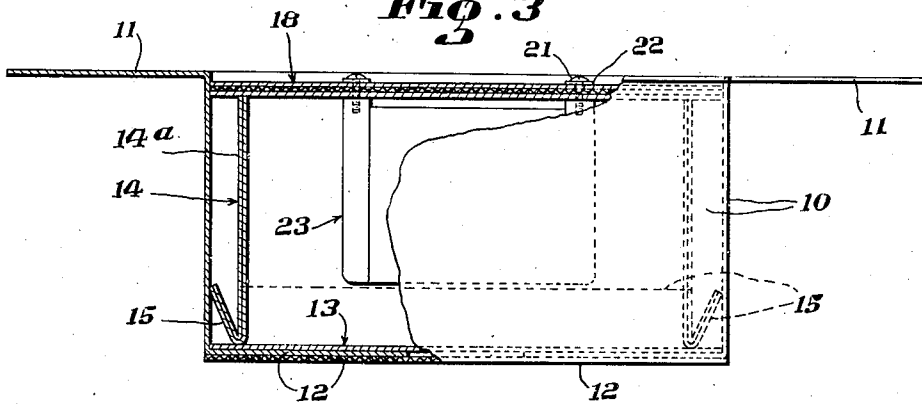
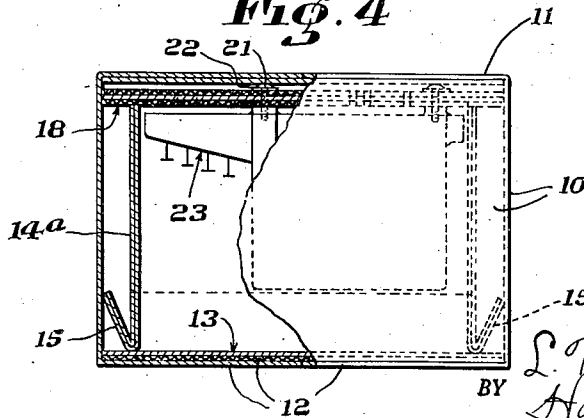


Fig. 4



INVENTOR

L. Frank Perkins
BY *Harold E. Cole*

ATTORNEY

UNITED STATES PATENT OFFICE

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INTERCHANGEABLE TYPEWRITER CARTON

Leon Frank Perkins, Wayland, Mass.

Application February 1, 1943, Serial No. 474,317

4 Claims. (Cl. 229-14)

This invention relates to interchangeable typewriter cartons.

One object of my invention is to provide a carton to pack and transport a typewriter in that will attachably receive any one of the popular makes of typewriters without making any changes in it. Another object is to provide an interior tube that spacedly fits inside of an outside box, which tube has integral flanges that make an automatic tight fit of the tube within said box, leaving a space between the two, except for the flanges. A further object is to form said flanges so that the tube may readily be inserted into its place within the outside box and fit tightly therein by the simple motion of pushing it in, and likewise be readily withdrawn by merely lifting it out.

Still another object is to make said carton simple and inexpensive in construction which will serve its purpose to hold and protect a typewriter in transportation with less effort required to pack the typewriter therein than has heretofore been necessary.

The foregoing and other objects which will appear as the nature of the invention is better understood, may be accomplished by a construction, combination and arrangement of parts such as is disclosed by the drawings and specification. The nature of the invention is such as to render it susceptible to various changes and modifications, and, therefore, I am not to be limited to said disclosure; but am entitled to all such changes therefrom as fall within the scope of my claims.

In the drawings:

Figure 1 is an exploded, perspective view of different parts constituting my typewriter carton.

Figure 2 is a plan view of the typewriter supporting board used in said carton.

Figure 3 is an elevational view of the longer side of my carton, partly in section, showing a typewriter after it has been inserted into said carton, the whole being in loading position, which is upside down, with the bottom covers open.

Figure 4 is the same elevational view as Figure 3, but showing the shorter side of my carton, partly in section, with all covers closed.

As illustrated, I show an outside box of usual construction made of heavy cardboard material that has four outside walls 10, bottom cover pieces 11 and top cover pieces 12. For further reinforcement a separate top piece 13 is placed under said top cover pieces 12.

Spacedly fitting within said outside box is a rectangular tube 14 which has four sides 14a.

At one end of said four sides 14a flaps or flanges 15 are formed by scoring and then bending over part of each said sides 14a to make said flanges 15. The cross-sectional area of said tube including said flanges 15 when lying flat exceeds the space within said outside box so that the flanges have to bear diagonally against the side walls 10 of the outside box. A space is left all the way around between said tube sides 14a and said outside box walls 10, and said flanges 15 fill in this space at one end extremity of said tube 14 and make a tight pressure-fit so that the tube is firmly held in position. Since the material is sufficiently flexible to bend without breaking, such as heavy cardboard, the joints resulting where the flanges are bent are flexible. The effect is that when said tube 14 is inserted into said outside box and pushed downwardly said flanges 15 yield from their normal position sufficiently to permit said tube 14 to slide down, although contact with said outside walls 10 is maintained. The pressure contact of the flanges 15 makes the fit of the tube in the outside box a tight one. In withdrawing said tube 14, it is merely lifted out.

A typewriting supporting board 18 fits within said outside box fairly snugly, extending across all four of the tube sides 14a and to said walls 10. It is preferably made of three-ply cardboard with the grain of the two outside cardboard sheets running in the same direction and the grain of the middle sheet running at right angles thereto.

This supporting board or base 18 is provided with a number of sets of holes, depending upon how many different makes of typewriters it is prepared to receive. I have shown it with four sets of holes to receive four different typewriters, although one pair or two of the holes are adapted to receive two different typewriters. Typewriters have screw-threaded holes in their base to receive the screws that hold the rubber feet, or the holes are sometimes provided elsewhere in the base to receive shipping screws 21 used with washers 22. Since typewriter bases vary in width and the distance apart from front to back of said holes in various typewriters varies, it has been customary to provide a separate supporting board for each make of typewriter, which board has special holes therein to receive shipping screws 21 corresponding with holes in the base of the one make of typewriter 23 it was intended for.

My supporting board 18 provides as many sets of holes as are needed to take the various makes of typewriters intended to be fastened to said base. In the drawings I have shown four sets of holes which I have numbered by sets A, B, C and

D respectively. For the A typewriter four A holes are provided through which the shipping screws 21 pass and then enter the base of the typewriter. Likewise there are four different holes for the B typewriter. Likewise for the C typewriter; but two of the C holes serve also for the D typewriter as well, so that I have marked two of the holes C—D because they serve for two different typewriters. There are two other D holes besides.

Beyond all of said holes is a border portion 19 on all four sides of the middle portion of said supporting board 18. Said holes A, B, C and D are all directly opposite the space enclosed by the sides 14a of said tube 14. None of said sets of holes are located squarely in the middle of said base. For instance, looking at Figure 2, where either pair of the front or nearest A and B holes terminate, there is left a wider portion between them and the forward edge of the base than is left at the opposite or rear edge and where the other two pairs of A and B holes terminate. The said wider portion because of the greater area will serve as the front of said supporting base when either an A or B typewriter is fastened to said base, so that the keyboard of the typewriter will not project beyond the edge of said board, but will be protected thereby. But where either pair of the C and D holes terminate at the opposite or rear portion of said board, looking at said Figure 2, the wider portion left is between them and the rear edge of said board 18 so that the wider portion of said board 18 for the C and D typewriters will be opposite to the wider portion that serves for said A and B typewriters. Said wider portions protect the typewriter keyboard in shipment.

After a typewriter 23 is screwed to said supporting board 18 it is first inserted upside down into the space enclosed by said tube 14 with said border portion 19 resting on the edges of said tube 14, as illustrated in Figure 3 of the drawings. Then the bottom cover pieces 11 are closed, as illustrated in Figure 4, whereupon the box is turned the other side up and is ready for shipment.

Other articles than a typewriter could be so packed and shipped in my box so in using the term typewriter I am not confining my invention to typewriters alone. Adding machines, for instance, could be similarly packed.

What I claim is:

1. A carton for typewriters or the like comprising an outside box, a tube of less depth than and being within and contacting an end extremity of said box when in loading position and having sides all of which are spaced from the sides of said box, filler means between the sides of said tube

and box and extending to and contacting the inner surfaces of all sides of said box, and a supporting board for a typewriter or the like in said box having provision to attachably receive a typewriter or the like, said provision being within a portion of said board that is directly opposite the interior space of said tube, a portion of said board extending laterally beyond the interior space of said tube, said board directly resting upon and supported by said tube sides when in loading position.

2. A carton for typewriters or the like comprising an outside box, a tube of less depth than and being within said box having sides all of which are spaced from the sides of said box, filler means fitting snugly between the sides of said box and said tube, and a supporting board for a typewriter or the like in said box having holes in a portion thereof through which screws may pass into a typewriter or the like to hold the latter to said board, said holes being within a portion of said board that is directly opposite the interior space of said tube, said board directly resting upon and supported by said tube sides when in loading position.

3. A carton for typewriters or the like comprising an outside rectangular box, a tube of less depth than and being within said box having sides all of which are spaced substantially equally from the sides of said box, said tube having flanges extending from the sides of said tube to and in contact with the inner surfaces of all sides of said box, and a supporting board for a typewriter or the like in said box which is of substantially the same dimensions across as the interior of said box and having provision to attachably receive a typewriter or the like, said provision being within a portion of said board that is directly opposite the interior space of said tube, a portion of said board directly resting upon and supported by said tube sides when in loading position.

4. A carton for typewriters or the like comprising an outside box, a tube of less depth than and being within and having sides which are spaced from the sides of said box, filler means between said tube sides and the sides of said box, and a separate supporting board in said box having provision to attachably receive a typewriter or the like, said provision being within a portion of said board that is directly opposite the interior space of said tube, a portion of said board extending laterally beyond the interior space of said tube to substantially the sides of said box, said board directly resting upon and supported by said tube sides when in loading position.

L. FRANK PERKINS.