March 27, 1934. H. L. HUNTER 1,952,071

GUARD

Filed Jan. 9, 1932 3 Sheets-Sheet 1

Fig. 1.

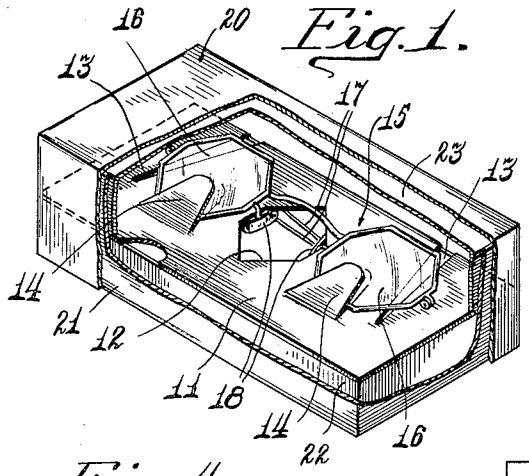


Fig. 2.

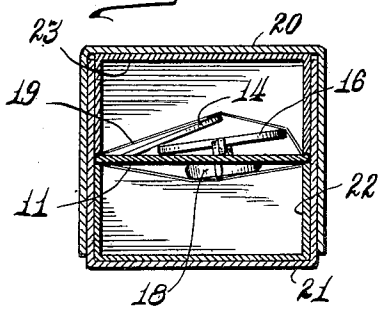


Fig. 3.

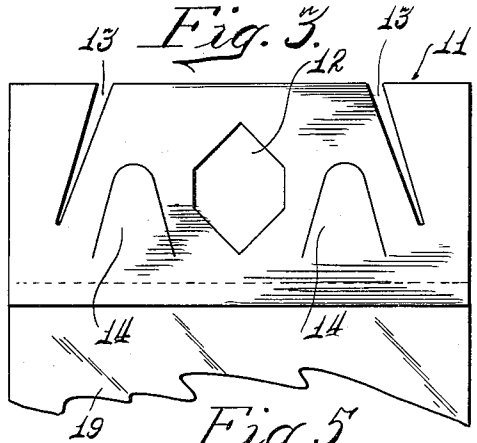


Fig. 4.

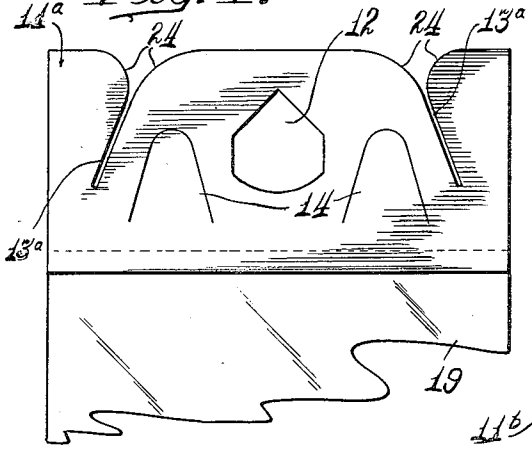


Fig. 5.

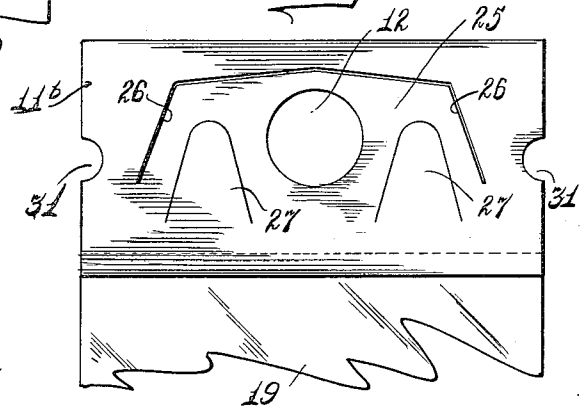
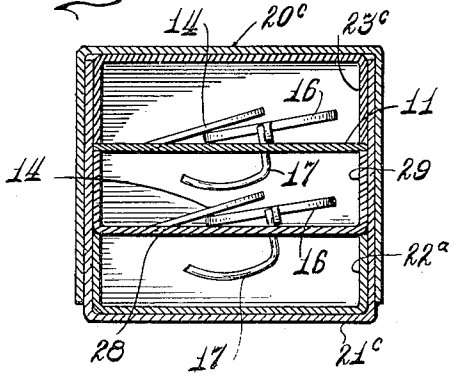


Fig. 6.



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March 27, 1934. H. L. HUNTER 1,952,071

GUARD

Filed Jan. 9, 1932 3 Sheets-Sheet 2

Fig. 7.

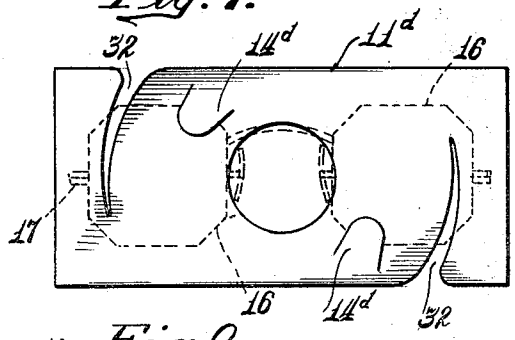


Fig. 8.

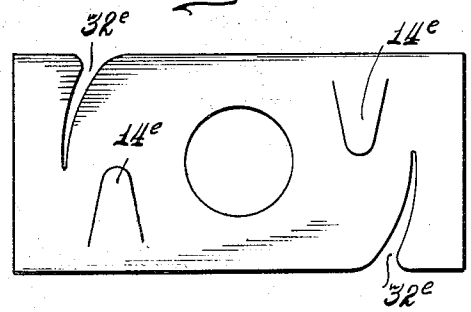


Fig. 9.

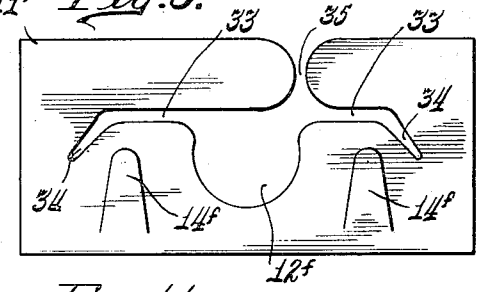


Fig. 10.

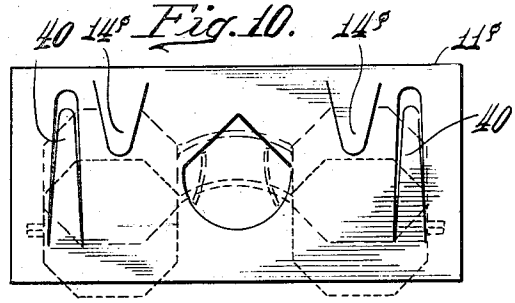


Fig. 11.

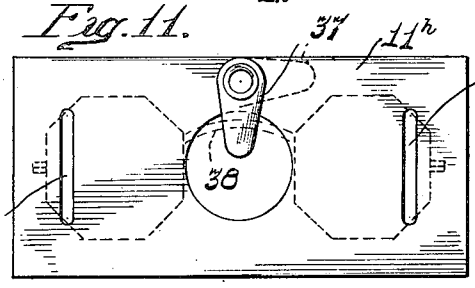


Fig. 12.

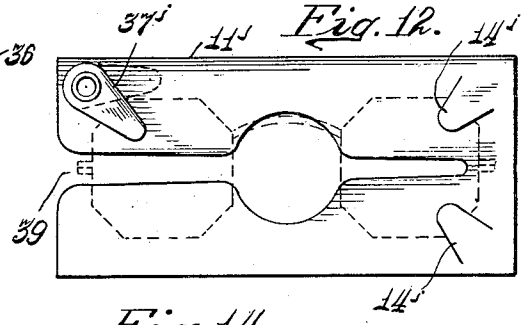


Fig. 13.

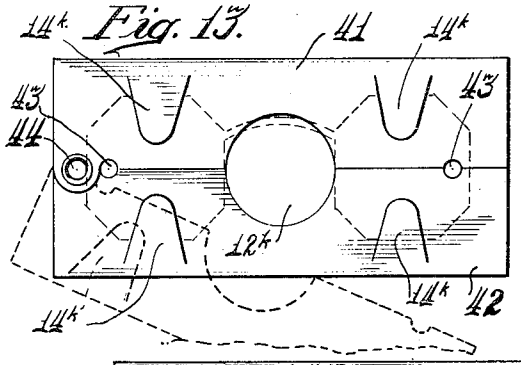
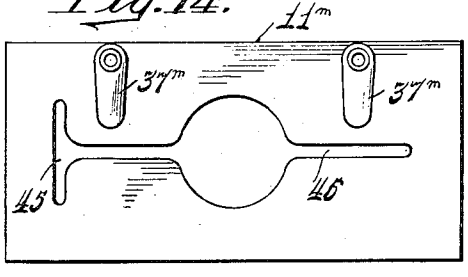


Fig. 14.



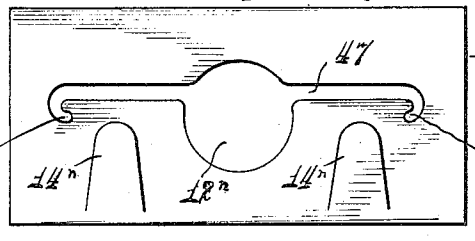


Fig 15.

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March 27, 1934. H. L. HUNTER 1,952,071

GUARD

Filed Jan. 9, 1932 3 Sheets-Sheet 3

Fig. 16.

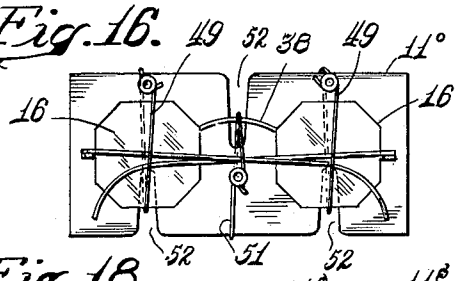


Fig. 17.

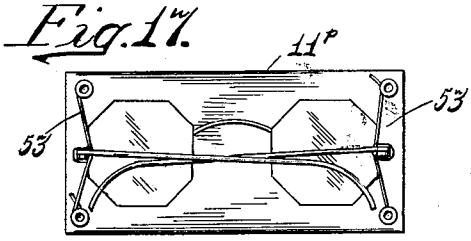


Fig. 18.

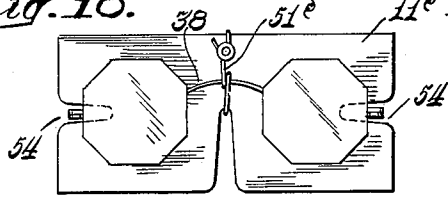


Fig. 19.

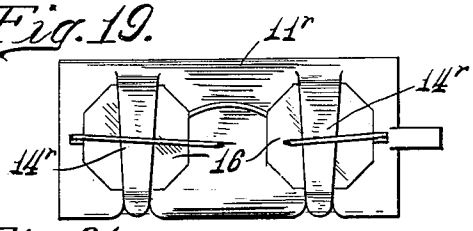


Fig. 20.

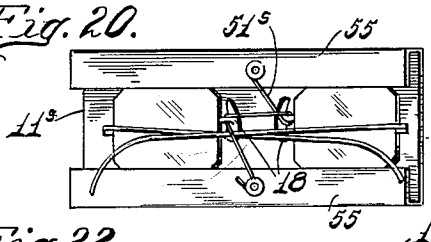


Fig. 21.

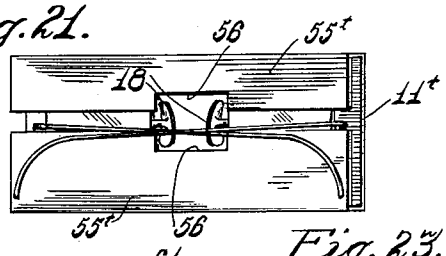


Fig. 22.

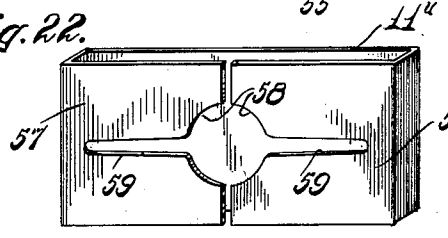


Fig. 23.

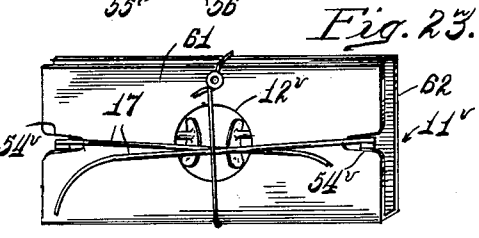


Fig. 24.

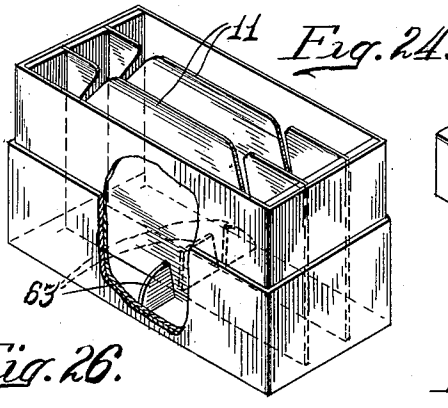


Fig. 25.

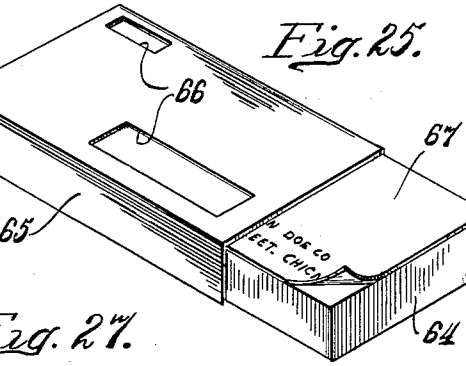


Fig. 26.

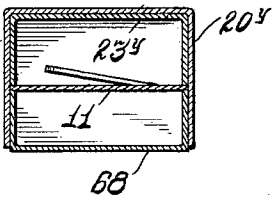
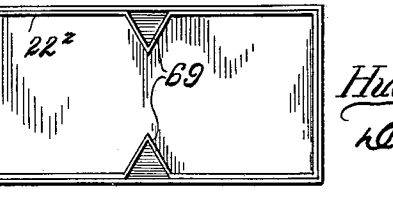


Fig. 27.



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Patented Mar. 27, 1934 1,952,071

UNITED STATES PATENT OFFICE

1,952,071

GUARD

Hugh L. Hunter, Chicago, Ill.

Application January 9, 1932, Serial No. 585,698

19 Claims. (Cl. 206—65)

The invention relates to improvements in guards and particularly to an improved holder or container for retaining securely spectacles or similar fragile articles suspended within a shipping carton.

An object of the invention is to provide an insert for a shipping carton with improved means to hold securely a fragile article such as, for example, spectacles, in a novel manner to prevent breakage.

Another object is to provide an insert or guard of the character referred to with means to receive readily, a pair of spectacles and retain said spectacles therein.

Another object is to provide a container with a spectacle guard of the character referred to and improved means to retain said guard, removably, midway between the opposed walls thereof.

Another object is to provide a spectacle guard of the character referred to which is easy to place within or remove from a container, satisfactory in use, and inexpensive to manufacture.

The foregoing and such other objects of the invention as will appear hereinafter as the description proceeds, will be more readily understood from a perusal of the following specification, reference being had to the accompanying drawings, in which:

Fig. 1 is a perspective view showing a shipping carton with parts broken away, having the improved spectacle guard therein.

Fig. 2 is a transverse vertical sectional view through the improved guard and container.

Fig. 3 is an elevational view of the improved guard shown in Fig. 1.

Figs. 4 and 5 are views similar to Fig. 3, showing modified structures.

Fig. 6 is a transverse vertical sectional view similar to Fig. 2 showing a different arrangement of guards within a carton.

Figs. 7 to 15, inclusive, are views similar to Fig. 3 showing modified forms of guards.

Figs. 16 to 19, inclusive, are plan views of guards illustrating further modified structures.

Figs. 20 to 23, inclusive, are perspective views of guards embodying other modifications in structure.

Fig. 24 is a perspective view, partly in section, illustrating a modified form of carton adapted to receive one or more of the improved guards.

Fig. 25 is a perspective view of another shipping carton shown partially disassembled.

Fig. 26 is a transverse vertical sectional view of another form of shipping carton.

Fig. 27 is a plan view of a portion of a shipping carton embodying a modified structure.

Commonly, spectacles are packed for shipment by covering them with a suitable wrapping and then placing the whole in a cardboard container. The container then is placed in another or outside container or carton of larger size. This method of packing does not safe-guard the spectacles which are very fragile and easily become bent or distorted to the extent of making them useless to the recipient. No amount of packing, when cardboard containers are used, has heretofore overcome this danger. The improved guard is designed to eliminate the danger of breakage by holding the spectacles suspended between the opposed walls of the container, which preferably is double walled to insure rigidity.

As shown in Figs. 1 to 3, inclusive, the improved guard preferably consists of a substantially rectangular sheet of heavy material 11 such as, for example, cardboard, having a centrally located opening 12. Slots 13 are provided one on each side of the opening 12 which diverge from each other and extend inwardly preferably from one longitudinal edge of the sheet 11. The edges of each slot preferably are non-parallel to present a relatively wide opening at the edge of the sheet for a purpose which will become apparent as the description proceeds. Spaced one on each side of the opening 12, inwardly of slots 13, are flaps 14 which are spaced from and extend inwardly from the opposite longitudinal edge of the sheet.

Spectacles 15 (Fig. 1) are inserted with their lens 16 beneath the flaps 14 and the bows thereof extend through the respective slots 13 and are folded against the under side of the sheet 11. The nose portions 18 of the spectacles are adapted to project through the opening 12 to retain removably the spectacles in the guard by abutment with the edge of said opening. A covering or wrapper 19, preferably of cellophane or similar transparent material attached to the sheet 11 along one edge, is arranged over the spectacles to further insure their retention in the guard.

After the spectacles are mounted on the guard and the wrapper 19 is arranged therearound, the guard is placed within a container or carton 21. As shown, an insert 22 in the container provides a shoulder to support the guard around its marginal edges. The cover 20 also has an insert 23 providing another shoulder to bear against the upper side of the marginal edges of the guard sheet 11. The insert 23 preferably is separate

of the cover 20 and is arranged over the guard prior to the placing of the cover thereon.

It will be noted that all the walls of the shipping carton are double and the carton when assembled insures rigid suspension of the spectacle guard midway between its top and the bottom. There is no possibility of the spectacles becoming disengaged from the guard even when the wrapper 19 is dispensed with. The guard sheet 11 although of heavy cardboard retains a limited amount of resiliency to absorb shocks and jars.

The guard sheet 11*a* shown in Fig. 4 is substantially like the guard sheet 11, however, in this structure the edges of the slots 13*a* are cut away at the edge of the sheet, as at 24, to facilitate mounting of the spectacles thereon, the wide entrance to the slots readily admitting the spectacle bows.

In the guard sheet 11*b* shown in Fig. 5, a flap 25 having diverging edges 26 is provided to receive the spectacles thereover, the bows thereof being inserted therebeneath through the slits defining the edges 26 of said flap. Lips 27, similar to flaps 14, are provided in the flap 25 to overlie the lens portion of the spectacles. If desired cut-outs 31 may be provided on the edges of the sheet to facilitate its removal from the carton.

The shipping container illustrated in Fig. 6 is like the container previously described but, as shown, is adapted to contain a plurality of pairs of spectacles. The bottom 21*c* of the container has, as before, an insert 22*a* upon which a spectacle guard 28 is arranged. In this instance, it is preferable that the guard 28 have a marginal flange 29 preferably extending upwardly thereabout which, when extending upwardly as shown, receives on its edge a guard 11 embodying any of the other structures illustrated. The upper insert 23*c* is arranged over the guard 11 and the cover 20*c* holds the assembly together. It is to be understood that the guard 28 need not be used and a separate continuous band or spacer provided to hold the superimposed guard sheets apart.

The guard sheet 11*d*, shown in Fig. 7, has slots 32 preferably arcuate, as shown, one extending inwardly from each edge of the sheet on each side of the centrally located opening. The spectacle bows 17 are inserted through the slots and the spectacles are swung over the sheet to clear flaps 14*d* and then swung back to dispose the lens 16 thereof beneath the flaps.

In Fig. 8 the guard shown has the flaps 14*e* arranged to engage over the spectacles upon insertion of the bows into the slots 32*e*.

The guard 11*f* shown in Fig. 9 has a centrally located opening 12*f* and opposed longitudinal slots 33 communicating therewith which terminate in diverging bow slots 34. A passage 35 connecting the slots 33 with the edge of the sheet admits the bows (not shown) into slots 33 whereupon said bows are moved one to each end 34. Flaps 14*f* engage over the spectacles and retain them on the guard.

The guard sheet 11*g* shown in Fig. 10 has lips 40 to receive the spectacle bows and, while mounting, the spectacles are moved toward the connected end of the lips until the lens are free to engage under flaps 14*g* upon being moved in the opposite direction.

The lateral slots 36 in the guard 11*h* shown in Fig. 11 are adapted to receive the spectacle bows and a rotatable keeper 37, which engages over the spectacle bridge 38, retains the spectacles on the guard.

As shown in Fig. 12, the spectacle bows are inserted into the open end of a longitudinal slot 39 in guard 11*j* and the spectacles are moved longitudinally until flaps 14*j* engage over one lens. One or more movable keepers 37*j* are provided to engage over the other lens to hold the spectacles in place.

The guard 11*k* shown in Fig. 13 comprises two like sections 41 and 42 each having complemental recesses on their abutting edges providing openings 12*k* and 43. Flaps 14*k* are provided on each section to engage over the spectacle lens. The sections 41 and 42 may be separate but, preferably are hingedly connected at one end as at 44.

As illustrated in Fig. 14 the guard 11*m* has a transverse slot 45 adjacent one end to receive the spectacle bows and a longitudinal slot 46 communicating therewith, whereby one of the bows may be moved to the opposed end of the guard. Keepers 37*m* engage over the spectacles to hold them in place.

The spectacle guard 11*n* shown in Fig. 15, has a longitudinal slot 47 communicating with a centrally located opening 12*n* through which the bows are inserted and moved toward each end of the slot. The ends of the slot preferably are curved to provide recesses 48 for receiving the bows and flaps 14*n* retain the spectacles on the guard.

The guard 11*o* shown in Fig. 16 is adapted to receive the spectacles face down, and suitable tying cords 49 and 51, secured at one end to the guard sheet, are wrapped around the spectacle lens 16 and the bridge 38, respectively. Slots 52 preferably are provided in the guard sheet to admit the tying cords into close engagement with the spectacles.

As illustrated in Fig. 17 suitable tying cords 53 are provided adjacent each end of the spectacle guard sheet 11*p* which are adapted to be wrapped about the bow mountings. If desired elastic cords may be used.

Fig. 18 shows a guard sheet 11*q* having a slot 54 in each end to receive the spectacle bows, and a tying cord 51*q* at its center adapted to be wrapped around the spectacle bridge 38 to prevent displacement of the spectacles.

The guard 11*r* illustrated in Fig. 19, has flaps 14*r* therein to receive therebeneath the spectacle lens 16. With this structure the spectacles are held securely when the guard is in place between the opposed shoulders of the carton, said shoulders holding the free end of the flaps in the plane of the guard sheet.

The guard sheet 11*s*, shown in perspective in Fig. 20, has its longitudinal edges 55 folded over the spectacle lens and a tying cord 51*s*, which preferably is wrapped about the nose portions 18, prevents longitudinal shifting of the spectacles.

Fig. 21 shows a guard sheet 11*t* similar to that shown in Fig. 20, however, the folded marginal edges 55*t* of the sheet are cut out at 56 to receive the nose portion 18 and prevent shifting of the spectacles longitudinally.

In the guard sheet 11*u*, shown in Fig. 22, the marginal end portions 57 are folded inwardly to overlie the spectacles. In this structure the marginal end portions preferably are cut out as at 58 and 59 to receive therethrough the nose portions and the bows of the spectacles (not shown).

The guard 11*v*, Fig. 23, consists of spaced walls 61 and 62 connected at one edge, between which the spectacles are inserted. An opening 12*v* in one wall receives the nose portions of the spectacles and slots 54*v* in said wall receive the bows 17.

The shipping carton illustrated in Fig. 24, preferably has spaced vertical guides on each end wall to receive therein spectacle guards 11. As shown, suitable spacers 63 are provided on the bottom wall of the carton midway between the ends to receive the guards therebetween whereby said guards are supported intermediate their ends. The top (not shown) also has similar spacers to support the upper edge of the guards.

Fig. 25 shows a shipping container including a box 64, which contains the spectacles and guard, and a sleeve like member 65 adapted to be fitted over the box. Suitable openings 66 are provided in the member 65 to expose the mailing and return address contained on a slip 67 inserted therebeneath.

The container shown in Fig. 26 is similar to that illustrated in Fig. 2, however in this instance, the bottom 68 is shallow to provide, with its upper edge, a shoulder upon which the spectacle guard 11 rests. The cover 20*y* telescopes over the bottom 68 and the insert 23*y* holds the guard in place.

Fig. 27 shows one portion of a carton of the type illustrated in Figs. 2, 6, and 26, the insert 22*z* thereof being offset as at 69 intermediate its ends to provide additional support for the spectacle guard when the latter is placed thereon.

Although exemplary forms of the improved guard and shipping carton have been shown in the accompanying drawings and described in the foregoing specification in detail, it is to be understood that the structures may vary in detail without departing from the spirit of the invention or the scope of the appended claims.

I claim:

1. A device adapted to hold spectacles suspended within a mailing carton, consisting of a rectangular sheet of material having a central opening of such a size and form to receive the nose portions of the spectacles, slots extending inwardly from one longitudinal edge of said sheet away from each other one on either side of said opening, the edges of said slots diverging toward their open end, and retaining flaps in said sheet one on each side of the central opening inwardly of said slots.

2. A device adapted to hold spectacles rigidly suspended in a mailing carton, consisting of a rectangular sheet of material having a central opening of such size and form to receive the nose portions of the spectacle, slots extending inwardly from one longitudinal edge of said sheet away from each other one on either side of said opening, the edges of said slots diverging toward their open end, and retaining flaps formed in said sheet one on each side of the central opening inwardly of said slots, said flaps being disposed toward the slotted edge of said sheet.

3. An article of manufacture adapted to hold spectacles rigidly suspended in a container consisting of a substantially rectangular sheet of heavy material having a central opening of such size and form to receive the nose portions of said spectacles and diverging slotted openings one on each side of said central opening extending inwardly from one longitudinal edge, of said sheet, and flaps formed in said sheet one on each side of the central opening inwardly of said slots.

4. An article of manufacture adapted to hold spactacles rigidly suspended in a container consisting of a substantially rectangular sheet of stiff material having a large flap of irregular outline thereon, a centrally located opening in said flap, said opening being of such size and form to receive the nose portions of said spectacles, lips one on each side of said central opening in said flap adapted to receive the lens portions of said spectacles therebeneath, said lips and said flap being disposed toward the same longitudinal edge of said sheet.

5. An article of manufacture adapted to hold spectacles consisting of a substantially rectangular sheet of material, said sheet having a central opening of such size to receive the nose portions of said spectacles and slots one on each side of said opening to receive the bows of said spectacles, and retaining flaps in said sheet one on each side of the opening inwardly of said slots adapted to overlie the lens portions of said spectacles.

6. A device adapted to hold spectacles suspended within a mailing carton, comprising, in combination, a rectangular sheet of material having a central opening of such size and form to receive the nose portions of the spectacles, slots extending inwardly from one longitudinal edge of said sheet away from each other one on either side of said opening, the edges of said slots being cut away at their open end to present a wide mouth to facilitate mounting of said spectacles on the sheet, and retaining flaps in said sheet adapted to overlie and retain said spectacles on said sheet.

7. A spectacle shipping guard consisting of a substantially rectangular sheet of material having an opening of such size to receive the nose portions of spectacles mounted thereon, slotted openings in said sheet one on each side of said opening adapted to receive the spectacle bows, and flaps on said sheet adapted to engage over and retain said spectacles on said sheet.

8. A spectacle shipping guard consisting of a substantially rectangular sheet of material having a central opening of such size to receive the nose portions of spectacles arranged thereon, slots adapted to receive the spectacle bows extending inwardly from opposed edges of said sheet one on each side of said opening, and flaps on said sheet adapted to co-operate with said opening and said slots to retain said spectacles on said sheet.

9. A spectacle guard comprising, in combination, a sheet of material having a centrally located opening of such size and shape to receive the nose portions of spectacles mounted thereon, slots adapted to receive the spectacle bows therethrough, one on each side thereof, said slots opening on one edge of said sheet, and a plurality of flaps in said sheet adapted to overlie said spectacles and retain them in place on said sheet.

10. A shipping guard for spectacles comprising, in combination, spaced walls connected along one edge, one of said walls having a centrally located opening therein of such size and form to receive the nose portions of said spectacles therethrough when the latter are inserted between said walls, slots on said wall one extending inwardly from each end adapted to receive the bows of said spectacles whereby said bows may overlie said wall, and a tying cord on said guard to retain said bows in place and prevent displacement of the spectacles.

11. A shipping guard for spectacles comprising, in combination, a sheet of material providing a supporting wall having a centrally located opening therein of such size and shape to receive the nose portions on said spectacles, means in said sheet co-operating with the spectacle bows to facilitate retention of the spectacles on said supporting wall.

12. A device adapted to hold spectacles suspended within a mailing carton, comprising, in

combination, a sheet of material having an opening of such size and shape to receive the nose portions of the spectacles, slots to receive the spectacle bows extending inwardly from one edge of said sheet one on either side of said opening, the slots being wider at their open end to facilitate mounting of said spectacles on the sheet, and means on said sheet adapted to overlie and retain said spectacles on said sheet.

13. A spectacle guard comprising, in combination, a sheet of material having an opening of such size and shape to receive the nose portions of the spectacles, slots one on each side of said opening extending inwardly from one edge of said sheet, said slots having a widened open end to facilitate insertion of the spectacle bows therein, and means formed in said sheet to retain the spectacles thereon.

14. A device adapted to hold spectacles suspended within a mailing carton, comprising, in combination, a rectangular sheet of material having a central opening of such size and form to receive the nose portions of the spectacles, slots extending inwardly from one longitudinal edge of said sheet away from each other one on either side of said opening, the edges of said slots diverging toward their open end to facilitate insertion of the spectacle bows therethrough, and retaining flaps in said sheet adapted to overlie and retain said spectacles on said sheet.

15. A spectacle guard consisting of a sheet of material having an opening of such size and shape to receive the nose portions of the spectacles, slots adapted to receive the spectacle bows therein extending inwardly from opposed edges of said sheet one on each side of said opening, and flaps on said sheet adapted to co-operate with said opening and said slots to retain the spectacles on the sheet.

16. A spectacle guard consisting of a sheet of material having an opening therein of such size and shape to receive the nose portions of the spectacles and slots to receive the spectacle bows one on each side of said opening extending inwardly from opposite edges of said sheet, and means on said sheet adapted to retain, in co-operation with said opening and said slots, said spectacles on said sheet.

17. A spectacle guard consisting of a sheet of material having a substantially centrally located opening of such size and shape to receive the nose portions of the spectacles, arcuate slots adapted to receive the spectacle bows extending inwardly from opposed edges of said sheet, one on each side of said opening, and means on said sheet adapted to retain, in co-operation with said opening and said slots, said spectacles on said sheet.

18. A shipping guard for spectacles comprising, in combination, spaced walls, one of said walls having a centrally located opening therein of such size and shape to receive the nose portions of said spectacles therethrough when the latter are inserted between said walls, slots on said wall one extending inwardly from each end adapted to receive the bows of said spectacles, and means on said guard to retain said bows in place and prevent displacement of the spectacles.

19. A shipping guard for spectacles comprising, in combination, spaced walls, one of said walls having a centrally located opening therein of such size and shape to receive the nose portions of said spectacles therethrough when the latter are positioned against said wall, slots in said wall adapted to receive the bows of said spectacles, and means on said guard to prevent displacement of the spectacles.

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