Oct. 9, 1951 R. VOGEL 2,570,412

COMBINATION CONTAINER AND HANDLE FOR RAZOR BLADES, BRUSHES OR THE LIKE

Filed Aug. 16, 1947

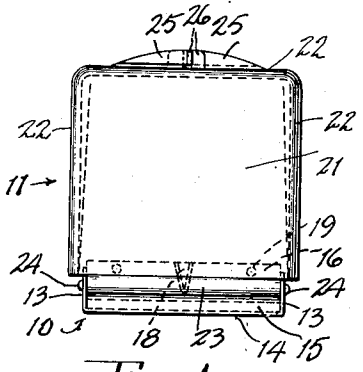


Fig. 1

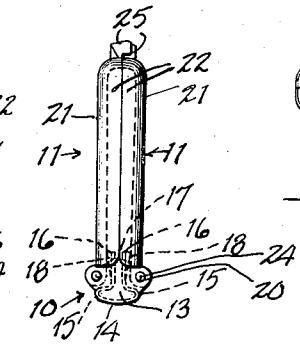


Fig. 2

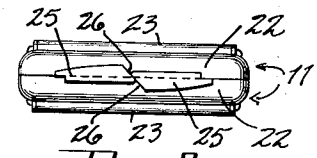


Fig. 3

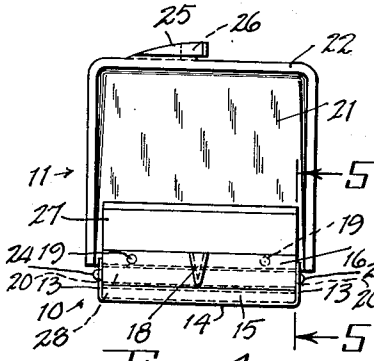


Fig. 4

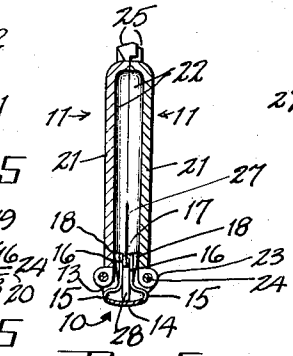


Fig. 5

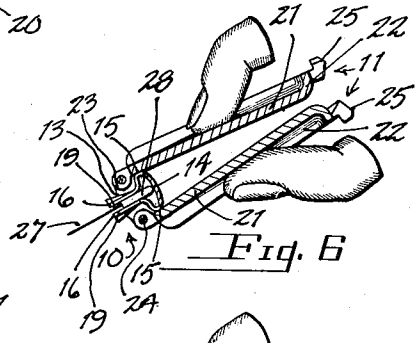


Fig. 6

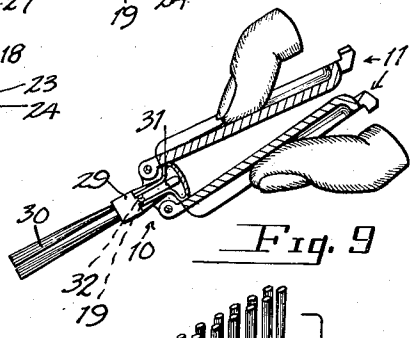


Fig. 9

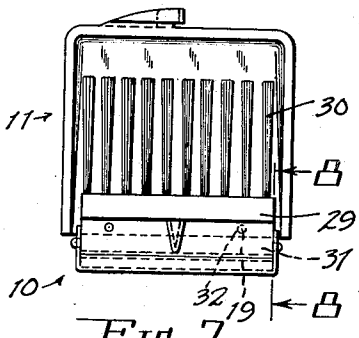


Fig. 7

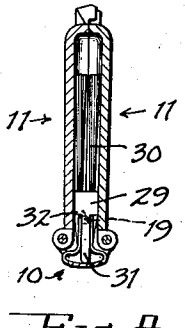


Fig. 8

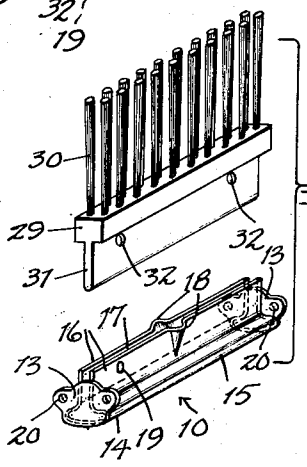


Fig. 10

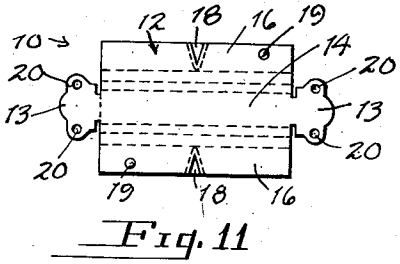


Fig. 11

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Patented Oct. 9, 1951 2,570,412

UNITED STATES PATENT OFFICE

2,570,412

COMBINATION CONTAINER AND HANDLE FOR RAZOR BLADES, BRUSHES, OR THE LIKE

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Application August 16, 1947, Serial No. 768,988

3 Claims. (Cl. 206—37)

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The present invention relates to a combination container and handle for razor blade, brush, or the like, and has for an object to provide a device of this character of compact and economical construction which may be conveniently carried in the pocket or purse. A further object is to provide a combination container and handle device having pocket means adapted to receive one of a plurality of different types of insert members, as for instance a razor blade, a brush, a magnifying glass, or the like. It is particularly proposed to provide a container consisting of a pair of substantially identical cover parts, hingedly mounted upon a supporting member which constitutes a retainer for the insert, said cover members in one position adapted to enclose the insert, and, in another position, to expose the insert and constitute manipulating handle means therefor.

It is further proposed to provide cooperative means between the supporting member and the cover members, whereby in either the closed position or open position, the parts will be retained in relatively fixed relation to each other, so that, in the closed position, there is no chance that the cover members will accidentally open, and in the open position, the cover members will constitute a rigid handle means for manipulating the insert.

With the above and other objects in view, an embodiment of the invention is shown in the accompanying drawings and this embodiment will be hereinafter more fully described with reference thereto, and the invention will be finally also pointed out in the claims.

In the drawings:

Fig. 1 is a front elevation of a combination container and handle device, according to the invention, and without the insert member therein.

Fig. 2 is a side elevation.

Fig. 3 is a top plan view.

Fig. 4 is a front elevation with a razor blade insert, one of the cover members being removed for the purpose of showing the insert.

Fig. 5 is a sectional view, taken along the line 5—5 of Fig. 4, and showing both of the cover members in closed position.

Fig. 6 is a sectional view, similar to Fig. 5, and showing the cover members in open position wherein they constitute a manipulating handle for the razor blade insert.

Fig. 7 is a view similar to Fig. 4 and showing a brush insert.

Fig. 8 is a sectional view, taken along the line 8—8 of Fig. 7, and showing both cover members in closed position.

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Fig. 9 is a sectional view similar to Fig. 8, and showing the cover members in open position to constitute a manipulating handle for the brush insert.

Fig. 10 is a perspective view showing the brush insert and the supporting pocket member of the device in separated relation.

Fig. 11 is a plan view of the flat blank from which the supporting pocket member is formed.

Similar reference characters indicate corresponding parts throughout the several figures of the drawings.

Referring to the drawings, the combination container and handle device comprises a pocket supporting member, indicated generally as 10, and a pair of substantially identical cover members, indicated generally as 11—11, hingedly connected to the supporting member for movement between a closed position, for containing an insert member connected to the supporting member, and an open position to constitute a manipulating handle for the insert member.

The pocket supporting member 10 is preferably formed from a sheet metal blank 12, as shown for example in Fig. 11, this blank being of substantially rectangular form and provided at its ends with ear forming portions 13—13. The rectangular blank is formed up at each side of its central longitudinal base portion 14, in line with the ears 13—13, to form abutment shoulders 15—15 at each side, and its marginal side portions are bent inwardly from these shoulders 15—15, and upwardly in spaced parallel relation to each other to form the side walls 16—16 of an insert receiving pocket 17. The side walls 16—16 are each provided centrally with an outwardly embossed projection 18, for constituting abutments for the cover members, as will hereinafter more fully appear. These side walls are also each provided with an insert retaining boss 19, for cooperation with an aperture, recess, or the like, of the insert member, as will thereinafter more fully appear. The ears 13—13 are bent upwardly at right angles to the base 14 against the ends of the side walls 16—16, and are disposed at each side of the side portions to provide hinge supports for the cover members, being each provided for this purpose with bearing holes 20—20, disposed in longitudinal alignment at each side of the side walls.

The cover members 11—11, are preferably of identical construction for the purpose of convenience and economy in manufacture, although it will be understood that it is not essential that they be of identical construction. These cover members are preferably formed of a suitable

moulded plastic material, and each consists of a rectangular panel 21, provided along its top and side edges with an inwardly extended flange 22, and provided at its lower edge with a hinge forming rib 23, which is tangential with the inner surface of the panel 21, and projects outwardly of its outer surface. The ends of the rib 23 are set inwardly from the lower ends of side flanges 22, as shown clearly in Fig. 1, and each end is provided with an integrally formed pin projection 24, adapted to fit in one of the holes 20 of the supporting member 10.

In order to assemble the cover members, the pin projections 24, are engaged with the bearing holes 20, of the ears 13, either by slightly springing the ears outwardly to engage the pin projections therewith, or by leaving one of the ears 13 bent slightly outwardly prior to assembly, so that it can be bent into its right angular retaining relation with the cover members.

In the closed position of the cover members the edges of the flanges 22 meet along the central plane of the device, and in this position the inner surfaces of the panel portions 21, engage firmly against the projections 18, so as to prevent any looseness between the supporting member and the cover members. Each of the cover members is provided at its upper edge with a clasp formation 25, having an inclined retaining and cam surface 26 at its inner end. In closing the cover members, the cam surfaces 26 slip past each other into over-lapping relation, through slight sidewise shifting movement of the cover members relative to each other, this action being permitted by the inherent resiliency of the parts of the device, the cover members being thereupon effectually retained in closed position, as shown in Fig. 3. In order to open the cover members, a twisting force is applied to the two clasp members by the fingers to force the cam surface 26—26 out of engagement with each other, this action also being permitted by the inherent resiliency of the parts of the device.

The pocket 17, of the supporting member 10 may receive any suitable insert which is adapted to be carried in the pocket and which requires a handle for its proper manipulation. In Figs. 4 to 6, a razor blade 27 is shown inserted in the pocket, this razor blade being illustrated as of a type provided with stiffened back band 28. The dimensions of the pocket 17 are such that the back band 28 of the blade is forced therein with a friction fit, and in the engaged position the retaining bosses 19 of the side walls 16 of the supporting member engage over the edge of the back band 28 and thus retain the blade firmly in position. It will be understood however, that the side walls 16 may have inherent resiliency and may constitute springy sides for retaining the insert under spring pressure. In order to use the razor blade as a scraper, an eraser, a thread-cutting knife, or the like, the cover members are opened and swung into the back-to-back position as shown in Fig. 6, where the outer surfaces of the cover members abut the shoulders 15—15 at each side of the supporting member, so that the positions of the cover members are rigidly fixed. The dimensions of the supporting member are such that in the open position, as shown, there is a slight clearance space between the opposed cover members when they are firmly engaged with the shoulders 15, thus insuring firm engagement with the shoulders and the resultant rigidity of the parts. The spacing of the cover members in the open position should be very slight, as the two covers may be forced together through their inherent resiliency by gripping pressure of the fingers. If there is a relatively wide space, this forcing of the cover members together may strain the hinge pins. However, with a very slight spacing the covers may be pressed together without appreciable strain upon the hinge pins.

In Figs. 7 to 11, there is illustrated a brush insert comprising a supporting base 29 provided with tufts of bristles 30, and having a downwardly projecting web portion 31, for insertion into the pocket 17 of the supporting member 10, being provided with suitable apertures 32—32 for engagement by the retaining bosses 19. Obviously, other types of inserts may be employed, being adapted for insertion by providing the insert with suitable pocket engaging means such as web portion 31 of the brush insert.

I have illustrated and described a preferred and satisfactory embodiment of the invention, but it will be understood that changes may be made therein, within the spirit and scope thereof as defined in the appended claims.

What is claimed is:

1. A combination container and handle device, comprising a supporting member comprised of a base portion having laterally spaced abutment shoulders at its opposed side edges, article retaining means at the upper side of said base portion adapted to support an article in upwardly projecting relation thereto, and hinge bearing means carried at opposed sides of said supporting member having hinge axes laterally spaced from and parallel to each other and respectively disposed in a horizontal plane spaced above said abutment shoulders, a pair of cover members having inner and outer sides and hingedly connected at their lower edge portions to said hinge means of said supporting member at opposed sides thereof, said cover members in the closed position of the device extending upwardly with their inner sides in face-to-face relation at opposed sides of said article, and in open position extending downwardly with their outer sides in back-to-back relation to constitute a manipulating handle for said article, said base portion being interposed between said open cover members with its abutment shoulders respectively engaged by their outer sides at points below their hinge axes.

2. A combination container and handle device, comprising a supporting member comprised of a base portion having laterally spaced abutment shoulders at its opposed side edges, article retaining means at the upper side of said base portion adapted to support an article in upwardly projecting relation thereto, hinge bearing means carried at opposed sides of said supporting member having hinge axes laterally spaced from and parallel to each other and respectively disposed in a horizontal plane spaced above said abutment shoulders, and laterally spaced abutment means at opposed sides of said supporting member spaced above the horizontal plane of said hinge axes, a pair of cover members having inner and outer sides and hingedly connected at their lower edge portions to said hinge means of said supporting member at opposed sides thereof, said cover members in the closed position of the device extending upwardly with their inner sides in face-to-face relation at opposed sides of said article with their inner sides respectively engaged with said abutment means, and in open position extending downward-

ly with their outer sides in back-to-back relation to constitute a manipulating handle for said article, said base portion being interposed between said open cover members with its abutment shoulders respectively engaged by their outer sides at points below their hinge axes.

3. A combination container and handle device comprising a supporting member comprised of a base provided with outwardly projecting shoulders at opposed sides, a pair of spaced longitudinal walls inwardly offset from said shoulders and extending upwardly therefrom and providing in the space between them an article receiving pocket to retain an article in upwardly projecting relation thereto, and a pair of upstanding ear portions, one at each end of said base, each having a pair of bearing portions projecting respectively outwardly beyond said walls, and the bearing portions at the respective opposed sides of said walls having their bearing axes horizontally aligned and outwardly spaced from said walls and upwardly spaced from said shoulders, and a pair of cover members having inner and outer sides and having hinge means at the ends of their respective lower edge portions engaged with said bearing portions at opposed sides of said supporting

member, said cover members in the closed position of the device extending upwardly with their inner sides in face-to-face relation at opposed sides of said article, and in open position extending downwardly with their outer sides in back-to-back relation and engaged with said shoulders to constitute a manipulating handle for said article.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
841,453	Rynehart	Jan. 15, 1907
1,184,138	Scharling	May 23, 1916
1,646,357	Noble	Oct. 18, 1927
1,665,955	Gatewood	Apr. 10, 1928
1,985,751	Vogel	Dec. 25, 1934
2,057,720	Kasdan et al.	Oct. 20, 1936

FOREIGN PATENTS

Number	Country	Date
814,144	France	Mar. 8, 1937