Dec. 2, 1930. A. VON FRANKENBERG 1,783,756

WATER TIGHT RECEPTACLE

Filed Nov. 9, 1926

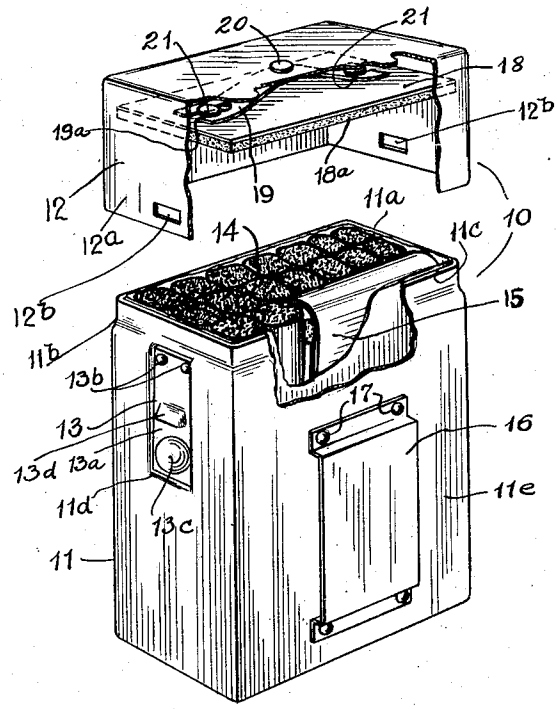



Fig. 1.

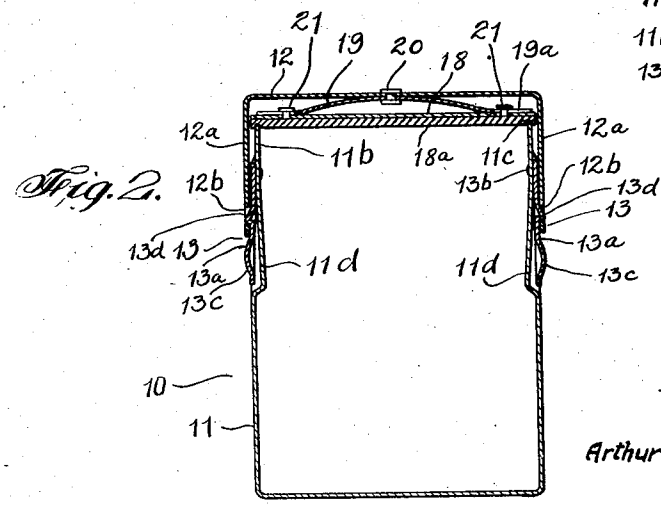



Fig. 2.

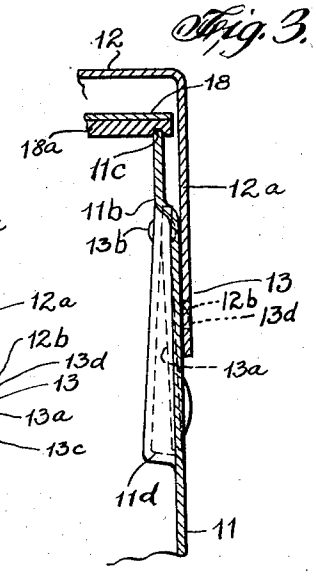



Fig. 3.

Arthur von Frankenberg
INVENTOR

BY

ATTORNEY

Patented Dec. 2, 1930 1,783,756

# UNITED STATES PATENT OFFICE

ARTHUR von FRANKENBERG, OF NEW YORK, N. Y.

## WATER-TIGHT RECEPTACLE

Application filed November 9, 1926. Serial No. 147,208.

This invention relates to water-proof receptacles, such as cigarette and match cases, and the like adapted to be used as a bathing suit accessory, and for like purposes.

An object of the invention is generally to improve the construction of water-proof receptacles of the character described so as to provide a structure comprising few and simple parts, which shall be relatively cheap to manufacture, and practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawing, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is a perspective view of a cigarette case embodying the invention showing the cover lifted off the container portion, parts of the cover and container being broken away to show the construction.

Fig. 2 is a cross-sectional view of the closed receptacle.

Fig. 3 is an enlarged fragmentary cross-sectional view showing in detail the means for locking the cover to the container portion.

Referring in detail to the drawing, 10 denotes a water-proof receptacle embodying the invention adapted to be used as a bathing suit accessory in the form of a cigarette and match case. Said receptacle is seen to include a container portion 11 having a top opening $11^a$ which is slightly contracted as at $11^b$, the purpose of which will hereinafter appear. The rim edge $11^c$ of said opening has fitted thereon a cover 12 which is releasably secured in position by a suitable spring latching means 13 mounted in depressed portions $11^d$ which are formed to extend down from the contracted wall portion $11^b$ in opposite sides of the container portion 11, as is clearly shown in Fig. 2.

The container portion 11 is constructed of suitable size and shape to have snugly fitted therein a standard pack of cigarettes 14. Preferably, the cigarettes are inserted into the container portion 11 in the original unitary package as purchased, the top of the package being removed to expose the ends of the cigarettes, some of the cigarettes being replaced by a booklet of strip matches 15, inserted as shown in Fig. 1.

Said container portion 11 has secured on an exterior side wall $11^e$ a looped member 16 which is adapted to receive therethrough a belt (not shown) or other means for securing the receptacle to the bathing suit or other apparel. Said member 16 is fastened in position in any suitable manner, as for example by soldering, or as shown in Fig. 1, by means of rivets 17.

The cover 12 is preferably formed of drawn sheet metal and has side walls $12^a$ made sufficiently deep to extend beyond the contracted side wall portions $11^b$ for engaging with a spring latching means 13 positioned in the depressed portions $11^d$. A plate 18 is resiliently mounted on the inside of the cover and is adapted to engage the rim edge $11^c$ of the opening $11^a$ to form a tight closure for the latter. The yieldable mounting for said plate may comprise a bowed spring 19 secured to the cover by a rivet 20, the ends of said spring being movably secured to the plate by means of a slot and pin connection, an open ended slot $19^a$ being provided at each end of the spring for engaging with pins 21 secured to the plate 18, as is clearly shown in Figs. 1 and 2. In order to provide a positively tight joint between the plate 18 and the rim edge $11^c$ of the opening for sealing the container portion 11, said plate is provided on the side of said plate contacting with the rim edge $11^c$ with a resilient layer $18^a$ formed of cork, rubber, felt, or other suitable material as is clearly shown in Figs. 2 and 3.

The spring latching means 13 is seen to comprise a spring member $13^a$ mounted in each of the depressions $11^d$ with one end of

each of said members $13^a$ fixedly secured by soldering or riveting to the wall of said depression adjacent the contracted portion $11^b$, as at $13^b$. The free end $13^c$ of each of the spring members is constructed to serve as a finger-piece, and the mid-section thereof has formed therein a protuberance $13^d$ which is adapted to engage in openings $12^b$ in the cover side walls $12^a$, the depressions $11^d$ being formed to permit springing the members $13^a$ therein for withdrawing the protuberance $13^d$ from the openings $12^b$ for releasing the spring latching means from the locked position shown in Fig. 2.

The operation of applying and removing the cover 12 from the container portion 11 is now apparent. When in the removed position shown in Fig. 1 the cover 12 may be applied to the container portion 11 for sealing the contents of the receptacle by simply pressing the cover down over the top opening $11^a$ into the position shown in Fig. 2 until the protuberances $13^d$ interlock into the openings $12^b$. In applying said cover, the spring 19 provides substantial force for effecting the closure of the plate 18 over said opening $11^a$ and the contacting layer $18^a$ of the plate 18 provides an efficient gasket for forming a watertight closure joint at the rim edge $11^c$ of said opening. The slot and pin connection between the plate and the ends of the spring 19 provide easy means for assembling the parts and also permit the spring 19 to exert unrestricted pressure against the plate 18.

When it is desired to remove the cover 12 from its effective closed position, the spring latching means 13 is released by simply pressing the finger-pieces $13^c$ into the depressions $11^d$ for releasing the protuberances $13^d$ from engagement with the cover openings $12^b$. The cover may then be readily separated from the container portion 11.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A device of the character described comprising a container portion having a top opening, the side walls of said portion at said opening being contracted, a cover fitted over said opening to extend beyond the contracted side wall portions, a closure plate adapted to engage the rim edge of said opening, spring means interposed between the cover and said plate for resiliently holding the latter against said edge, and releasable latching means for retaining the cover and plate in effective closed position, said means including a spring finger disposed between said cover and a side wall of said container and secured to said side wall.

2. A device of the character described comprising a container portion having a top opening, the side walls of said portion at said opening being contracted, other opposite portions of side walls formed with the depression down from said contracted portion, a cover fitted over said opening to extend beyond the contracted side wall portions, a closure plate, a resilient layer carried by said plate adapted to engage the rim of said opening, a spring interconnecting said cover and plate, and means extending along the depressed portions of said side walls for releasably locking the cover on said container portion to retain the spring in tension against the plate for forming a tight joint with said layer between the plate and said rim.

3. A device of the character described comprising a container portion having a top opening, the side walls of said portion being provided with a plurality of spaced depressions, a spring catch member in each of said depressions and secured to said container, a cover fitted over said opening, said cover extending partially over said members and adapted to engage with said members for locking the cover on the container portion, a portion of each of said members extending beyond said cover to permit manual operation of the locking engagement.

4. A device of the character described comprising a container having a top opening, opposite side walls of said container being each provided with a depression, spring catch members in said depressions, a portion of said container adjacent the top opening thereof being contracted with respect to the cross-section of said container, a cover fitted over said opening, said cover being extended to contact said side walls and having means for engaging with said members for locking the same to said container, a spring pressure member fastened to the cover, a closure plate carried by said pressure member adapted to contact with the rim edge of said container at said opening, to form a tight joint for sealing the container.

5. A device of the character described comprising a container portion having a top opening, the side walls of said portion being provided with longitudinal depressions spaced from the rim portion of said opening, spring catch members in said depressions, a cover fitted over said opening, said cover extending over said members for engagement therewith for locking the cover on the container portion, said opening being contracted with respect to the cross-section of said por-

tion, and a spring pressed closure plate suspended from said cover to coact with the rim edge of said opening to form a tight joint for sealing said container portion, said plate including a resilient layer for contacting with said rim edge.

6. In a water tight receptacle of the character described, in combination, a container having a top opening, a cover for said container, and sealing means for said opening, said means comprising a resilient gasket, a spring fastened to said cover, and a pin and slot connection between said spring and gasket.

In testimony whereof I affix my signature.

ARTHUR VON FRANKENBERG.