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A. VAN A. FELTEN.

RETAINING RING FOR RECEPTACLE CLOSURES.

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Fig. 1.

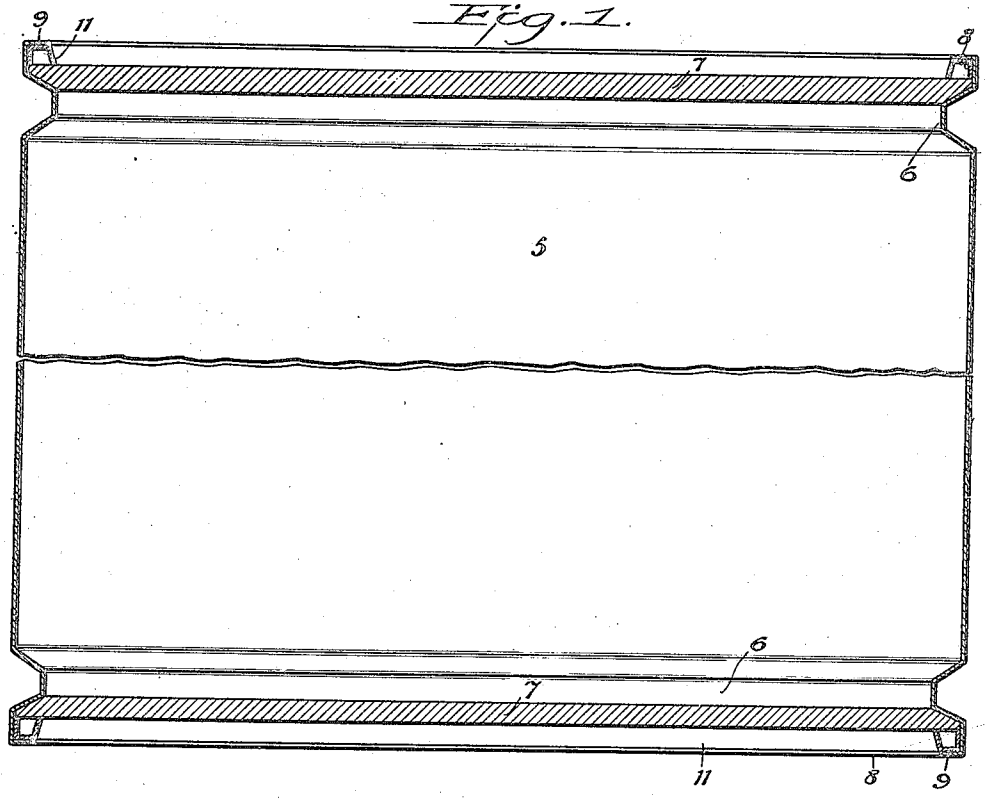
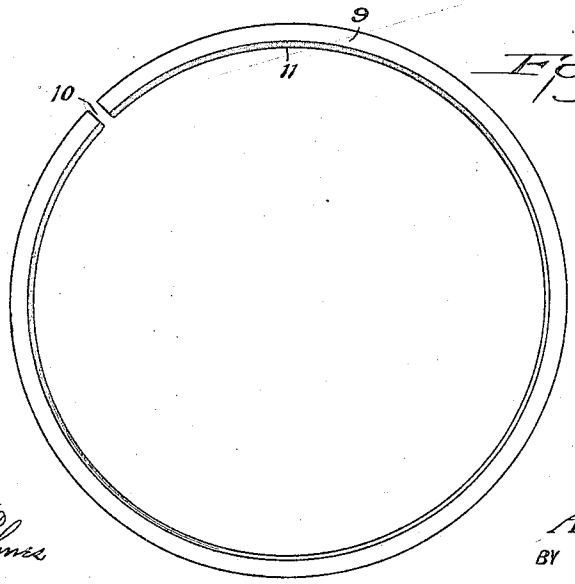


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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RETAINING RING FOR RECEPTACLE CLOSURES.

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To all whom it may concern:

Be it known that I, ABRAM V. A. FELTEN, a citizen of the United States, and resident of Danbury, in the county of Fairfield and State of Connecticut, have invented a new and Improved Retaining Ring for Receptacle Closures, of which the following is a full, clear, and exact description.

This invention relates to improvements in receptacles, and has particular reference to a retaining ring for the closure of a receptacle.

It is a well appreciated fact in connection with shipping and storing vessels, that it has been common to use a receptacle of this nature in the form of a metallic drum, the ends of which are closed by heads of wood, or other suitable material.

Great difficulty, however, has been experienced in securing these heads properly with respect to the body of the receptacle to provide a tight joint, and even where an operator has been successful in providing a joint of this nature, the head has oftentimes become subsequently displaced, incident to the rough usage which it receives.

Thus my present invention aims to provide a cover retaining ring adapted to be utilized in connection with a receptacle including a body portion and a separate head, and this ring is of such a nature that when used in conjunction with a head it causes the formation of a tight seal between the said head and body in all instances.

A further object of this invention is that of constructing a device of the character stated which when once in applied position will require a deliberate removal thereof to effect any displacement with respect to the head so that the possibility of accidentally unseating the head, either partially or completely is obviated.

Among further objects of this invention is that of constructing a retaining ring capable of being manufactured at a nominal figure, and

Still further objects of this invention will become apparent in the annexed specification taken in connection with the drawings, which latter illustrate one practical embodiment of the same, and in which:

Figure 1 is a side view of a receptacle of the type specified, having a head associated therewith, which head is retained in applied position by means of my improved type of retaining ring, and

Figure 2 is a plan view of the retaining ring and showing the same detached from the receptacle.

It will be appreciated that my retaining element is capable of association with any desired type of receptacle, and closure, but it will be seen that in the embodiment illustrated I have shown the same used in connection with a metallic receptacle 5 having inwardly extending flanges 6 adjacent its ends, these flanges presenting inclined inner side walls with which the beveled edges of the covers 7 co-operate to close the receptacle. In this connection it will be noted that in the construction illustrated, each cover 7 is preferably formed of wood. Each outer edge of the receptacle 5 may be inturned as at 8, my improved type of retaining ring being introduced between the inturned portion and the outer face of the cover 7.

It will be seen, reference being had to both of the figures that the ring includes a U shaped body portion 9 which is preferably made of metal to impart a degree of resiliency thereto and which is preferably split as at 10, it being noted that the said ring has its inner side wall inclined as at 11. When the ring is in retaining position its outer side wall is in contact with the inner face of the receptacle 5 and its base portion bears against the inner face of inturned portion or flange 8 of the receptacle. By applying the ring in this manner both of the free edges of the same contact with the cover 7, and it will be obvious that an accidental displacement of the ring will be precluded by virtue of the fact that its edges, and particularly the edge of the inclined side wall 11 will bite into the cover 7 to a limited extent in the event that the ring tends to become displaced thus counter-acting this movement. It will also be apparent that by reason of the inclined inner side wall of the ring the same may more readily be sprung, due to the resilient material of which the ring is made, into its retaining position between the cover 7 and flange 8.

Also both of the side walls of the ring bearing against the cover 7 will preclude any danger of the said cover becoming unseated. From the foregoing it will be appreciated that all of the objects of this invention are accomplished, it being readily understood that numerous modifications of structure might readily be resorted to without in the

least departing from the scope of my claims; which are:

1. A retaining ring for a receptacle closure, including a channeled body having an intermediate portion and side walls joining said body, the free longitudinal edges of said side walls being spaced apart a distance at least equal to the width of said intermediate portion and being engageable with the closure of said receptacle.

2. A retaining ring for a receptacle closure, including a channeled body having an intermediate portion and side walls joining said portion, the free longitudinal edges of said side walls being spaced apart a distance greater than the width of said intermediate portion and being engageable with the closure of said receptacle.

3. The combination with a receptacle having an inturned flange at one end, and a closure for said end spaced from said inturned flange; of a substantially U shaped retaining ring positioned between said flange and closure and including an intermediate portion and side walls extending therefrom and arranged in diverging relation with respect to each other, the free edges of said side walls engaging the adjacent surface of said closure.

4. The combination with a receptacle having an inturned flange at one end, and a closure for said end spaced from said inturned flange; of a channeled retaining ring including an intermediate portion and side walls, the intermediate portion engaging said flange and the free edges of said side walls engaging said closure.

5. The combination with a receptacle having an inturned flange at one end, and a closure for said end spaced from said inturned flange; of a retaining ring including an intermediate portion and side walls, the intermediate portion engaging said flange and the free edges of said side walls engaging said closure and being capable of movement relative to said intermediate portion, one of said side walls being disposed in inclined relation with respect to said closure.

ABRAM VAN AKEN FELTEN.