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R. J. BELL

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COLLAPSIBLE BARREL

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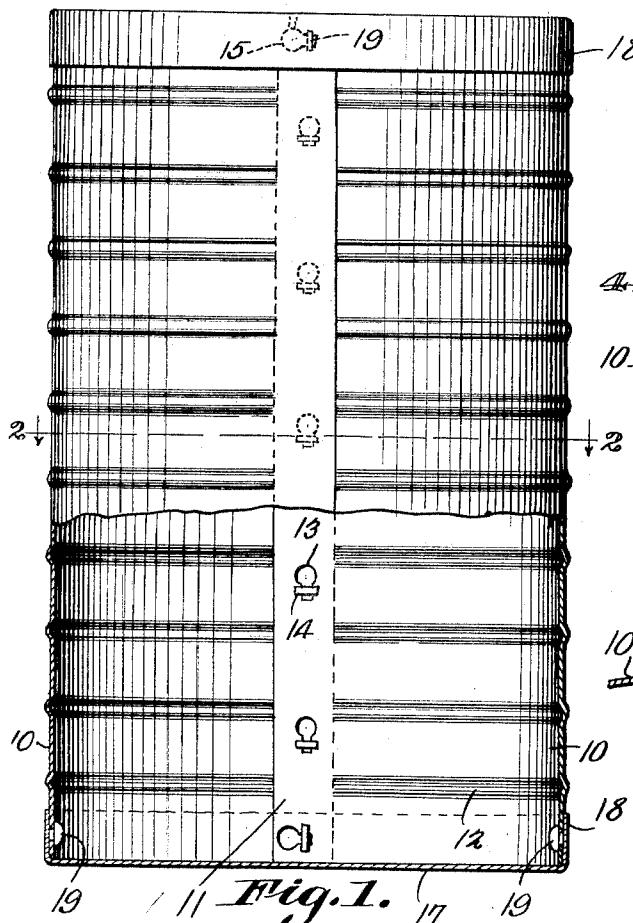


Fig. 1.

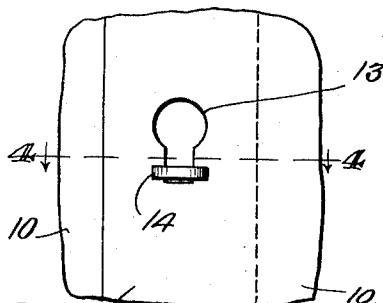


Fig. 3.

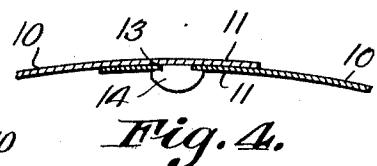


Fig. 4.

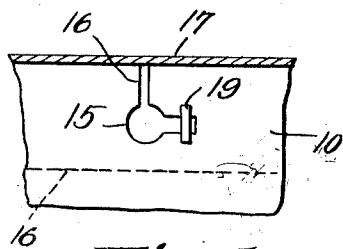


Fig. 5.

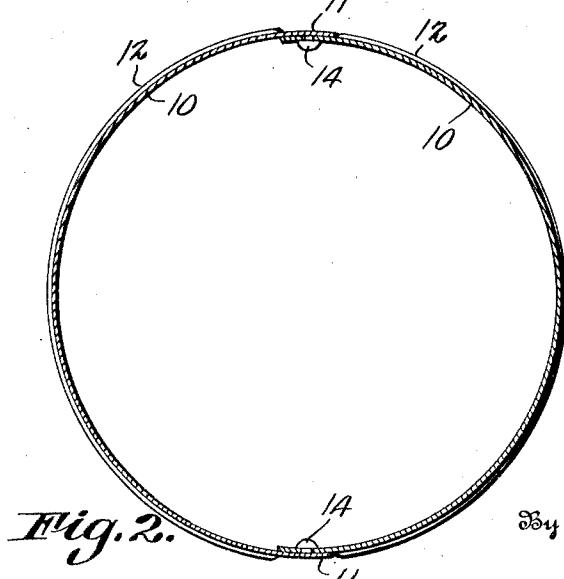


Fig. 2.

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## UNITED STATES PATENT OFFICE

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## COLLAPSIBLE BARREL

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This invention relates to barrels and has special reference to a collapsible sheet metal barrel.

Collapsible steel or other metal barrels consisting of a pair of substantially semi-cylindrical side sheets and a pair of flanged heads are well known. Such barrels have had the edges of the side sheets secured together and the heads secured to the body by various means and the principal object of the present invention is to provide a novel and simple securing means in such barrels, the means being fixedly attached to or formed from or on the respective member of the barrel.

With the above and other objects in view the invention consists in general of a collapsible barrel made from sheet metal in sections and novel and improved connecting means for said sections.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:

Figure 1 is a vertical section of a complete barrel constructed in accordance with this invention;

Figure 2 is a section on the line 2—2 of Figure 1;

Figure 3 is an enlarged detail view of one side sheet connecting means;

Figure 4 is a section on the line 4—4 of Figure 3;

Figure 5 is a view from the inside of the barrel showing the means for connecting a head to the body.

In the embodiment of the invention here illustrated, the barrel is shown as consisting of two like substantially semi-cylindrical body sections 10, the vertical edge portions 11 of which are smooth so that the edge of one section may slide longitudinally on the corresponding edge of the other section when overlapped thereon. Between these smooth edge portions reinforcing ribs 12 may be pressed or otherwise formed in the sheet metal of which the sections are composed.

Of each two coacting or meeting edge portions 11 one is provided with vertically arranged and vertically spaced key hole slots 13

and the other is provided with vertically spaced inwardly projecting buttons 14 having heads sufficiently small to pass through the larger ends of the slots 13 and sufficiently large to overlap the edges of the smaller ends of said slots. The spacing of the slots and buttons is the same so that the two sections 10 are readily assembled by passing the button heads of one section through the key hole slots in the other and sliding one section on the other until the two sections are flush at their ends and the button shanks in the smaller ends of the key hole slots.

At each end edge each section 10 is provided with a series of horizontal key hole slots 15 spaced circumferentially about the end and each slot 15 is provided with a slit 16 extending through the adjacent edge of the section 10. Thus the slots 15 and 16 form a bayonet slot. Each head 17 has a flange 18 from the inside of which extend the buttons 19 so spaced that the head may be positioned on the assembled body sections and the shanks of the buttons 19 passed through the slits 16 into the key hole slots, the head being rotated to bring the shanks into the smaller ends of the slots 15.

Thus, the sections 10 may be assembled and the heads applied without the use of tools or any loose fasteners such as wires, pin, nuts or the like.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

It is obvious that minor changes may be made in the form and construction of the invention without departing from the material principles thereof. It is therefore desired that the invention be not limited in scope to the exact form here shown and described but that the invention be limited only by the scope of the appended claim.

Having thus described the invention, what is claimed as new is:

In a collapsible barrel, a plurality of detachable sections having pairs of overlapping coacting edges, one edge of each pair being provided with a series of vertical key hole slots and the other edges of the pair being

provided with buttons fixed thereon having heads adapted to pass through the larger ends of the key hole slots and of larger size than and slidable vertically into the smaller ends 5 of said slots, two of said sections being substantially semi-cylindrical and having their vertical edges coacting and provided with said buttons and slots to form the body of the barrel, said two sections having bayonet slots 10 at their top and bottom edges adjacent their side edges and registering in pairs upon assembly of said two sections, the remaining two sections forming flanged heads, the flanges whereof coact with the top and bottom edges of the body and are provided with buttons to engage the bayonet slots of the body at said top and bottom edges certain 15 of said buttons of the flanged heads engaging in the registering bayonet slots to lock the 20 semi-cylindrical sections against vertical movement with respect to each other.

In testimony whereof I affix my signature.  
ROBERT J. BELL.

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