No. 814,375. PATENTED MAR. 6, 1906.

R. W. HARDIE.

BARREL.

APPLICATION FILED JUNE 17, 1905.

Fig. 1.

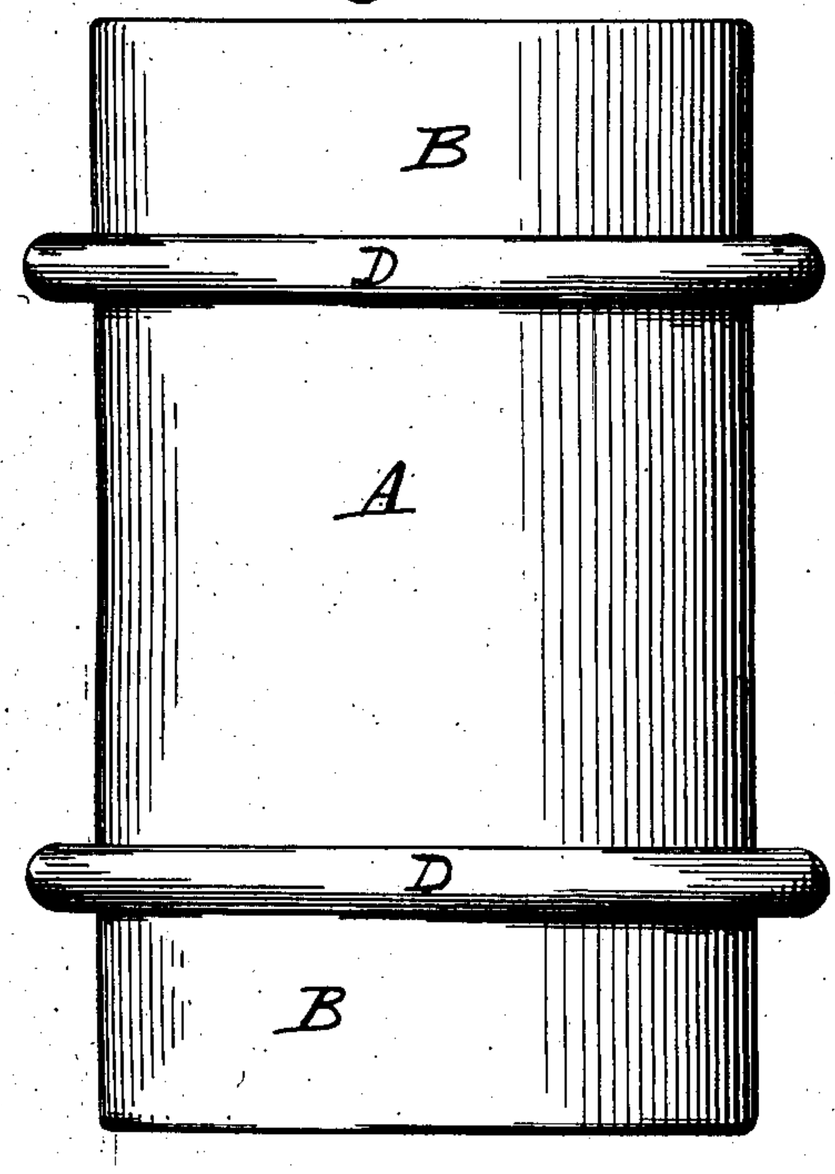


Fig. 2.

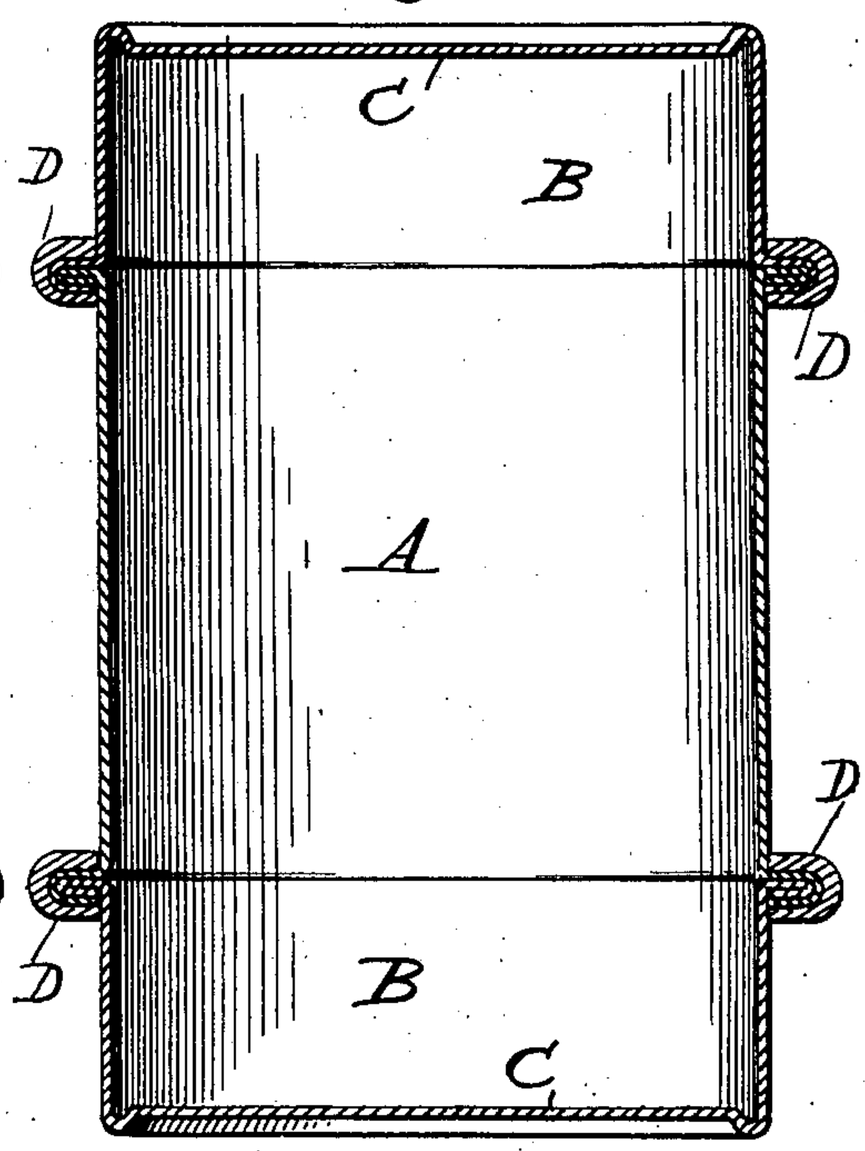


Fig. 3.

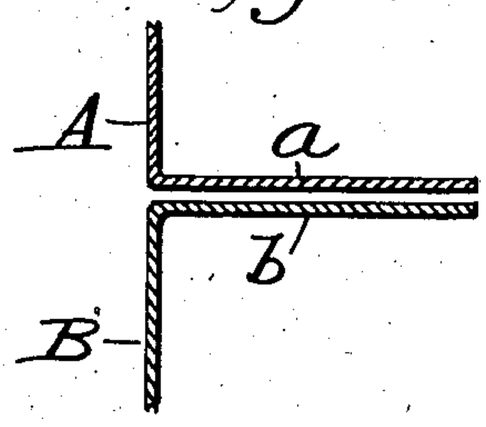


Fig. 4.

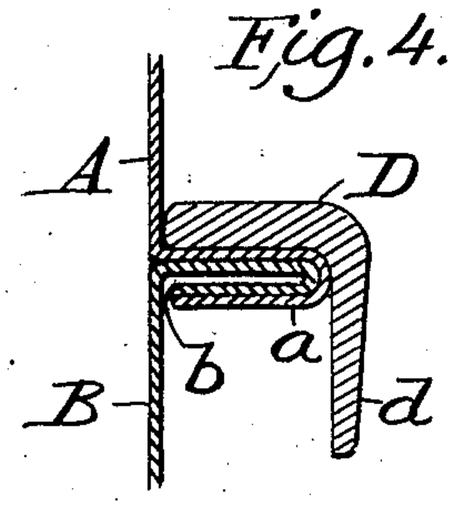
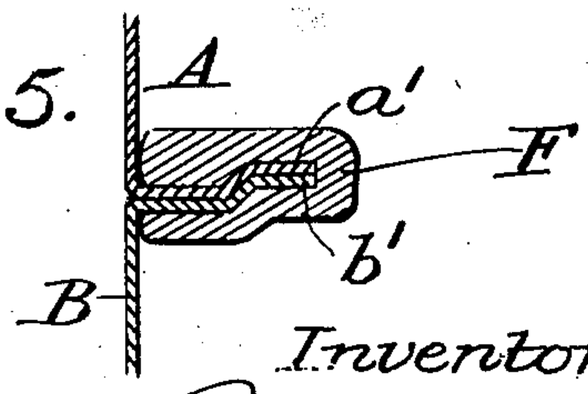


Fig. 5.



Witnesses:

James F. Duhamel.

William F. Quigley

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UNITED STATES PATENT OFFICE.

ROBERT W. HARDIE, OF NEW YORK, N. Y.

BARREL.

No. 814,375. Specification of Letters Patent. Patented March 6, 1906.

Application filed June 17, 1905. Serial No. 265,692.

To all whom it may concern:

Be it known that I, ROBERT W. HARDIE, a citizen of the United States, residing at the city of New York, in the county and State of New York, have invented new and useful Improvements in Barrels, of which the following is a specification.

My invention relates to metal barrels, boilers, tanks, and receptacles of a similar character, and has for its objects to provide means for joining the sections of such a receptacle securely together by an air and liquid tight joint, to protect said joint from injury, and to enable the receptacle to be rolled on its side without injury to the shell. These objects I accomplish by the means illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my invention applied to a metal barrel. Fig. 2 is a vertical cross-section of the same. Fig. 3 is a section of the ends of two sections of a barrel with flanges formed thereon. Fig. 4 is a section of a joint partially formed. Fig. 5 is a section of a modification of my invention.

As illustrated in the drawings, the shell of the barrel is composed of a central section A and end sections B, preferably having a head C formed integral therewith. In the construction preferred by me the ends of the central section of the shell are each turned outward from the shell, forming on each end of said section a flange *a*, and the adjacent ends of the end sections are also turned outward to form a corresponding flange *b*, adapted to be arranged adjacent to the flanges of the central section. These flanged ends of the central and end sections are then preferably turned over and interlocked, thereby forming a tight joint projecting outward from the shell of the barrel. An annular hoop D, having a bendable flange *d*, is then placed over the outwardly-extending joint of the barrel with the inner wall of the hoop bearing against one side of the joint. The flange *d* of the hoop is then pressed or rolled inward firmly against the opposite side of the joint, so as to exert direct pressure on and clamp the edges of said flanges firmly together and make the joint absolutely air and liquid tight. The hoop not only strengthens the joint and protects the joint from injury while the barrel is in use, but it serves, moreover, as a rolling hoop on which the shell may be raised from the ground and rolled, thereby protecting the shell from injury. While the hoop protects the joint from injury, the joint by extending outward from the shell serves as means for securing the hoop to the shell.

The main or body portion of the hoops D is made sufficiently heavy to support the weight of the barrel and its contents, while the flange *d* is preferably made lighter in structure than the body of the hoop, and thereby adapted to be bent over onto the flanges of the sections and clamp them tightly and securely against the wall or main body of the hoop.

I do not desire to be limited to the construction of joint and hoop already described, in which a complete joint is first formed by interlocking the flanged ends of two sections of a shell together and then binding an outer hoop around said joint. In some instances I propose to clamp the edges of the flanges of two adjacent sections together by means of such a hoop, so that the hoop unites with the flanged ends of the sections to make a joint. When so used, the flanged ends of the sections may be crimped together, if desired, as shown in Fig. 5.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a barrel, the combination of two cylindrical sections having their adjacent ends provided with interlocking outwardly-extending flanges, and an annular hoop provided with a bendable flange adapted to bear against and clamp the edges of said flanges together, substantially as shown and described.

2. In a barrel, the combination of two cylindrical sections having their adjacent ends provided with outwardly-extending crimped flanges, and an annular hoop provided with a bendable flange adapted to bear against and clamp the edges of said flanges together, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT W. HARDIE.

Witnesses:

WILLIAM F. QUIGLEY,

HENRY P. PERRIN.