

No. 892,775

PATENTED JULY 7, 1908.

E. C. THORSCHMIDT.
METALLIC HEAD FOR VESSELS.

APPLICATION FILED JULY 27, 1907.

Fig. 1.

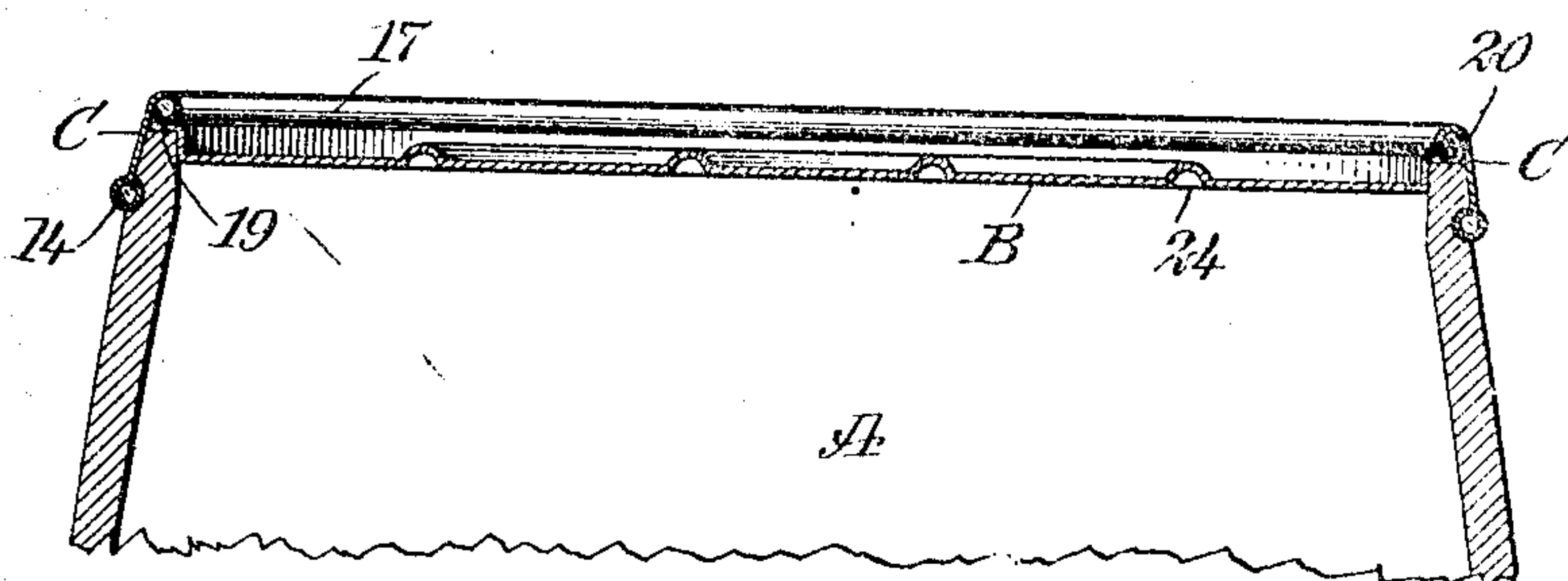


Fig. 2.

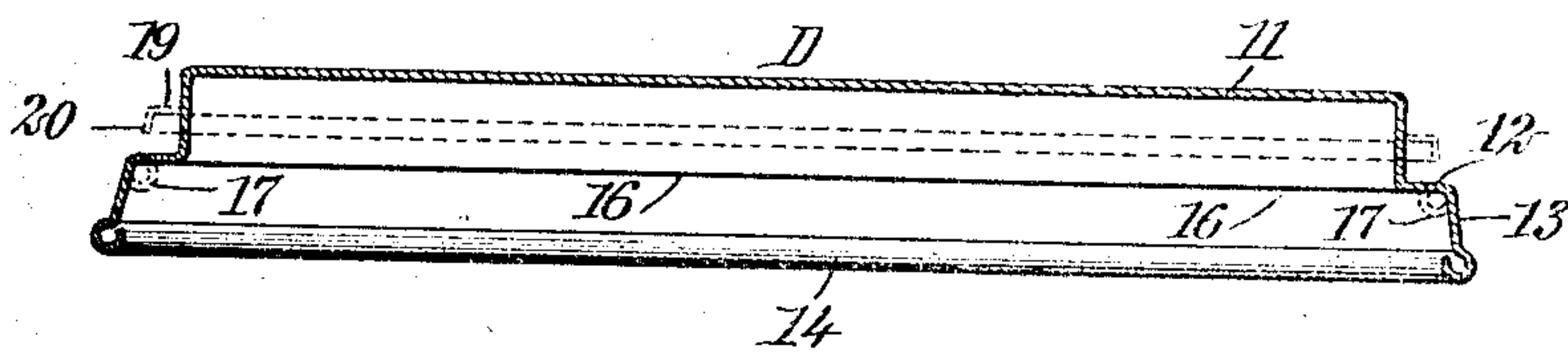


Fig. 3.

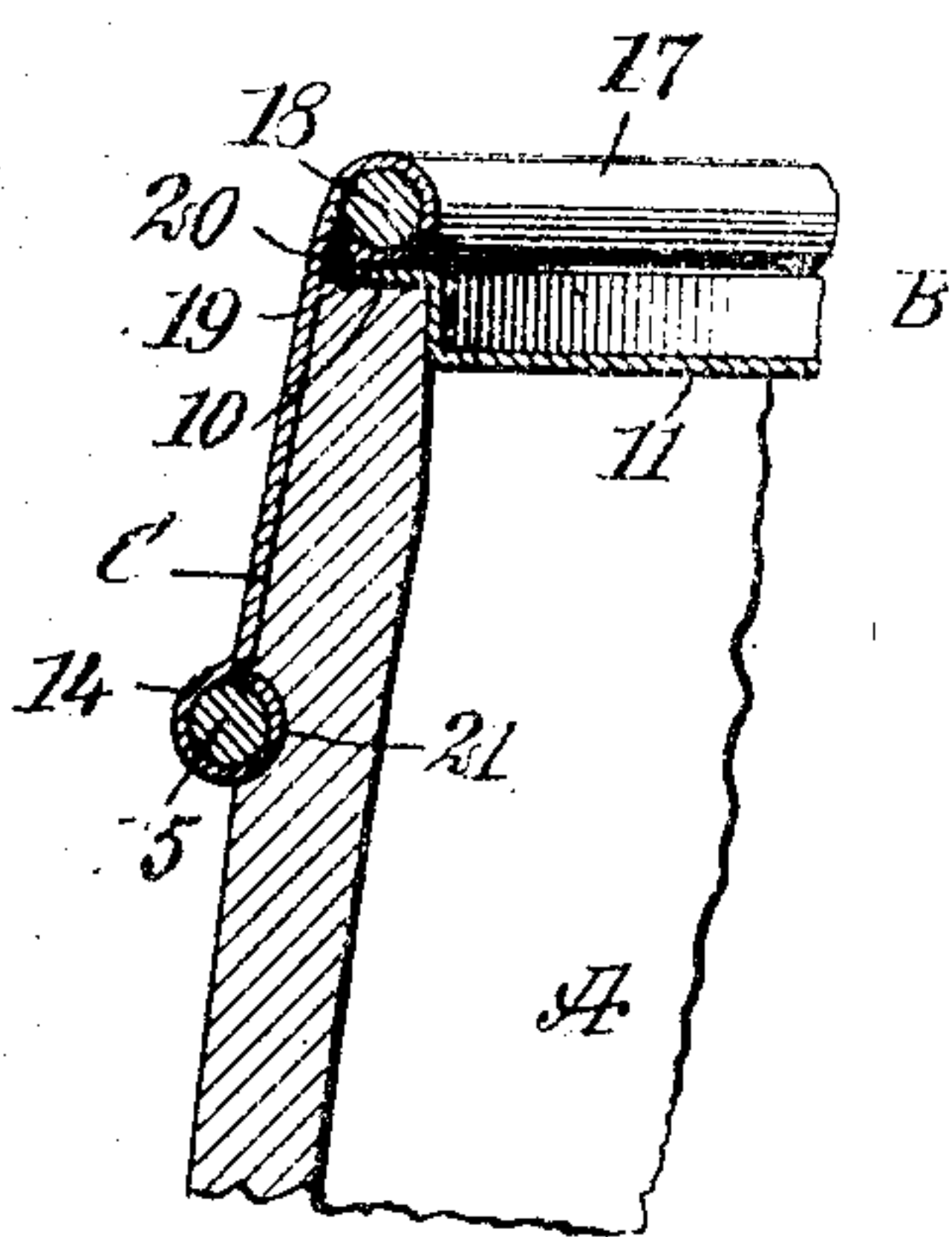
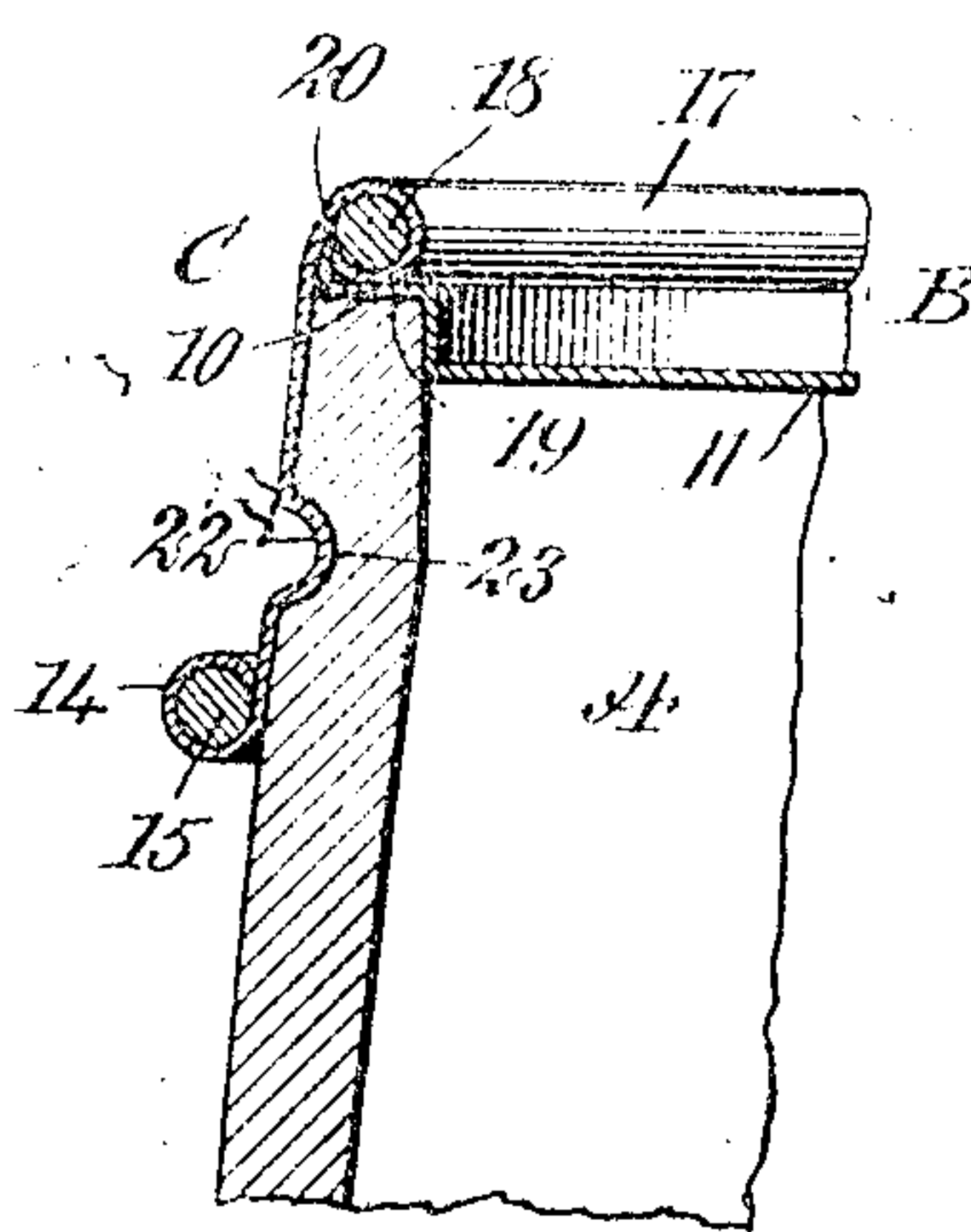


Fig. 4.



WITNESSES

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METALLIC HEAD FOR VESSELS.

No. 892,775.

Specification of Letters Patent.

Patented July 7, 1908

Application filed July 27, 1907. Serial No. 385,828.

To all whom it may concern:

Be it known that I, ERNEST C. THORSCHMIDT, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Metallic Heads for Vessels, of which the following is a full, clear, and exact description:

10 The purpose of the invention is to provide a metal head particularly adapted for open, wooden vessels, but which is equally applicable to metal vessels including such vessels as pails, tubs, barrels, and the like, which head is in two sections, namely a cover section and a clamping hoop therefor, the said two parts or sections being primarily formed from a single piece of metal suitably struck up, and which is then cut and each part or section independently and individually finished.

20 A further purpose of the invention is to provide a metallic head for vessels which will be exceedingly simple, readily applied, and which will produce an effective closure of the part to which application is made.

25 The invention consists in the novel construction and combination of the several parts as will be hereinafter fully set forth and pointed out in the claims.

30 Reference is to be had to the accompanying drawings forming a part of this specification in which similar characters of reference indicate corresponding parts in all the figures.

35 Figure 1 is a longitudinal section through an end portion of a barrel and the improved head applied thereto; Fig. 2 is a section through the blank from which the two parts of the device are formed; Fig. 3 is an enlarged longitudinal section of a portion of an end of the barrel and a portion of the head; and Fig. 4 is a view similar to that shown in Fig. 3, illustrating a slightly modified form of the clamping hoop.

45 A represents the body of the barrel, B the cover section, and C a clamping hoop for said cover section. In the construction of the body of the vessel A, if it is made of wood the ends of the staves are straight and flat, and if metal is employed, the edges of the vessel are similarly formed, as is shown at 10 in Figs. 3 and 4. In constructing the head a circular blank D is struck up, as is shown in Fig. 2, being shaped to comprise a circular dish member 11 from which a flange 12 is horizontally and outwardly carried, and from the said flange 12 a second flange 13 is down-

wardly carried with an outward inclination, and at the free edges of the flange 13 a continuous practically circular bead 14 is formed, extending partially upon the inside and partially upon the outside of said flange, and within the said bead 14 a metal strengthening ring 15 may or may not be introduced, as found desirable in practice.

60 After thus forming the blank it is cut on the line 16 whereby the dish portion 11 is separated from the flange portions 12 and 13. The dish portion 11 is then shaped to form the cover section B and the flange sections 12 and 13 are then finished to provide the clamping hoop C. This clamping hoop is finished by turning the flange portions 12 and 13 inward and downward at the upper edge of that portion 13 that constitutes the body of the hoop, to form a substantially circular bead 17 at the upper edge of the hoop at its upper side, and a strengthening ring 18 also may or may not be provided for the upper bead 17. The hoop is therefore a seamless hoop and has a downward and outward flare.

80 In completing the cover section B, the edge thereof is carried horizontally outward to form a flange 19, and from this flange 19 an upwardly extending flange 20 projects.

85 The dish portion of the said cover section is of such diameter that it fits snugly within the barrel at its end, and the horizontal flange 19 is practically of a width corresponding to the thickness of the stave of the barrel at its outer end and rests securely upon the plain end surface 10 of the staves.

90 In the operation of completing the head of a barrel, the cover section B is first placed in position and then the upper bead 17 of the clamping hoop C is made to bear upon the horizontal flange 19 of the cover section and bear against the inner face of the upwardly extending flange 20 of said cover, as is best shown in Figs. 3 and 4. Then the hoop C is pressed down to a firm engagement with the outer face of the barrel until the inner face of the lower bead 14 enters a segmental annular groove 21 produced in the outer face of the barrel, as is clearly shown in Fig. 3. In Fig. 3 the lower bead 14 extends equally beyond the inner and the outer faces of the hoop C, whereas in the construction of the hoop shown in Fig. 4, the lower bead 14 is at the outer face of the hoop entirely, but the upper bead 17 is formed the same in both types of the hoop; and in the type of hoop shown

in Fig. 4 an annular bead 22 semicircular in cross section is produced in the outer face of the hoop between its upper and its lower edges, and when the hoop is placed on the barrel this segmental or semi circular bead 22 is received within a corresponding annular recess 23 which is produced in the outer face of the barrel at a point nearer the lower bead of the hoop when the hoop is on the barrel than the outer bead 17.

This head is very simple, is economically formed, makes a perfect closure where applied, and can be expeditiously and conveniently placed in position.

The improved hoop serves to keep the staves at the upper end of the barrel in intimate and tight relation one with the other.

I desire it to be understood that I do not limit myself to the cross sectional shape of the grooves or croze or the identical form of forms of the rolled or bent edges of the hoop as shown at 14 and 21 in Figs. 3 and 4.

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

The combination with the barrel, of a head therefor, comprising a head section provided with a marginal flange for engaging the end of the barrel, and an outer flange at an angle to said first named flange, and a clamping hoop having a bead at its edge, the upper bead engaging the flange of the head section, and the lower bead engaging the outer face of the barrel, the outer flange being received between the upper bead and the body of the clamping hoop.

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

ERNEST C. THORSCHMIDT.

Witnesses:

J. FRED. ACKER,
JOHN P. DAVIS.