

No. 881,418.

PATENTED MAR. 10, 1908.

A. T. KRUSE.
SHEET METAL PACKING CASE.
APPLICATION FILED SEPT. 5, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

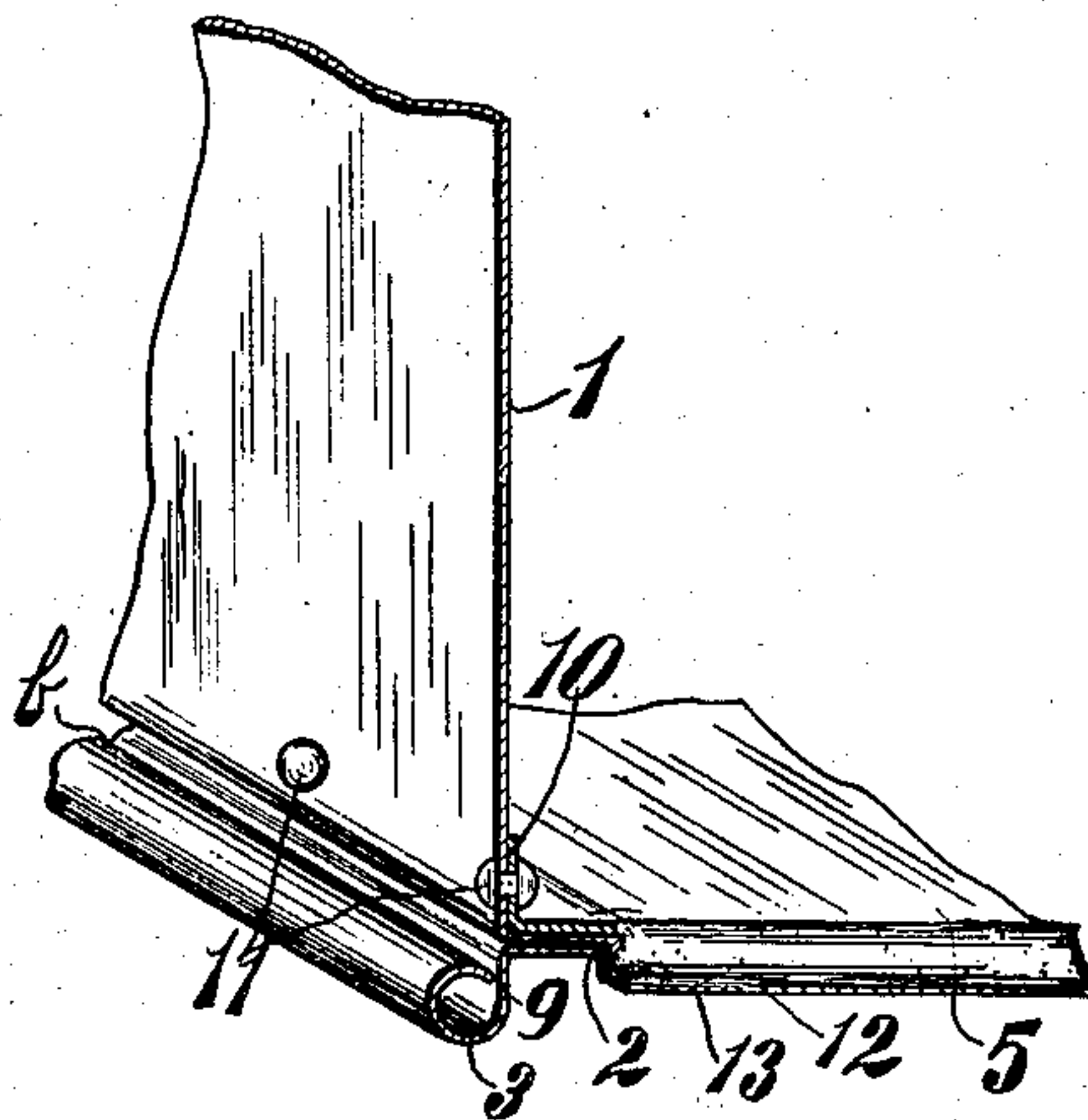
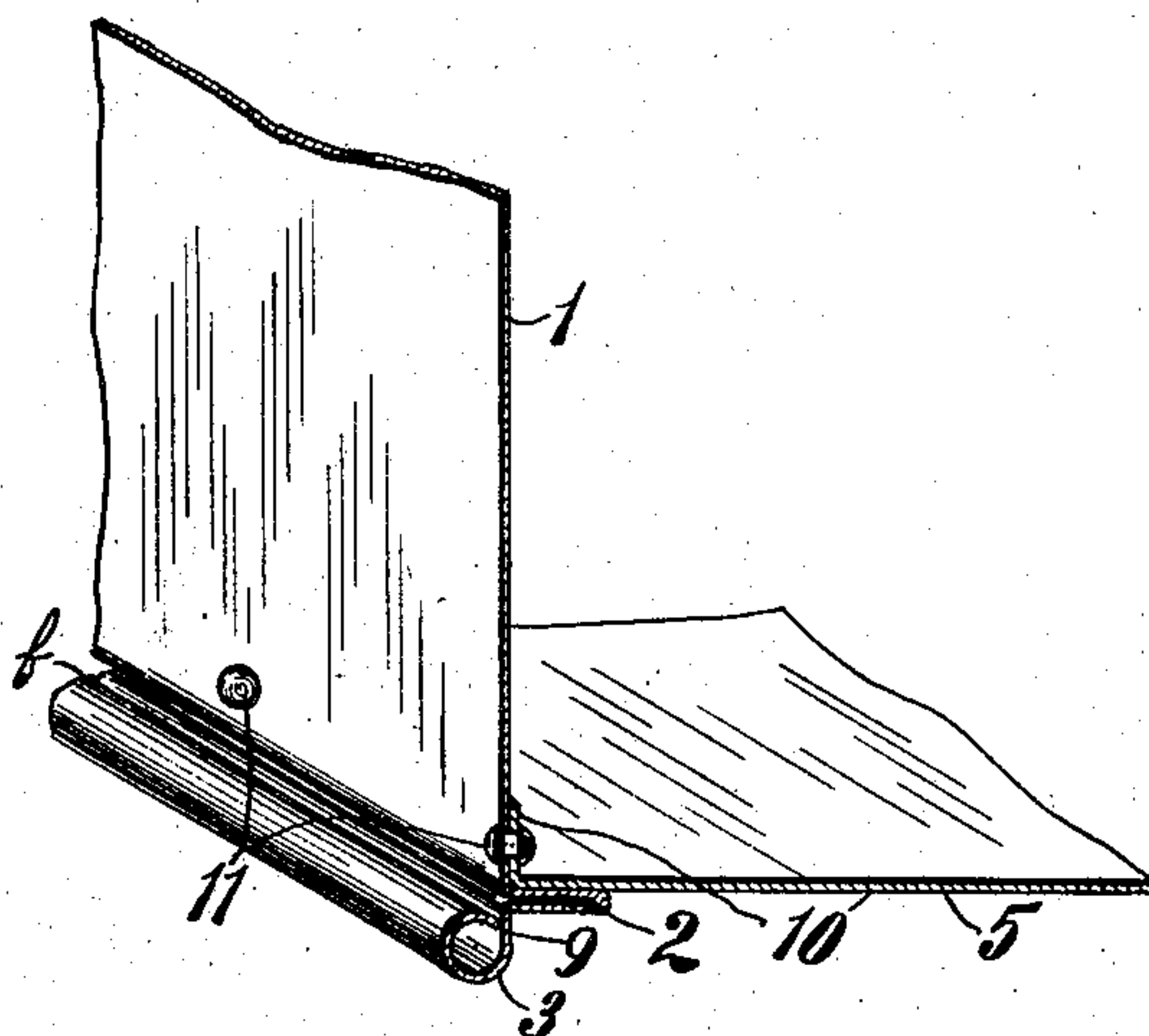


Fig. 2.



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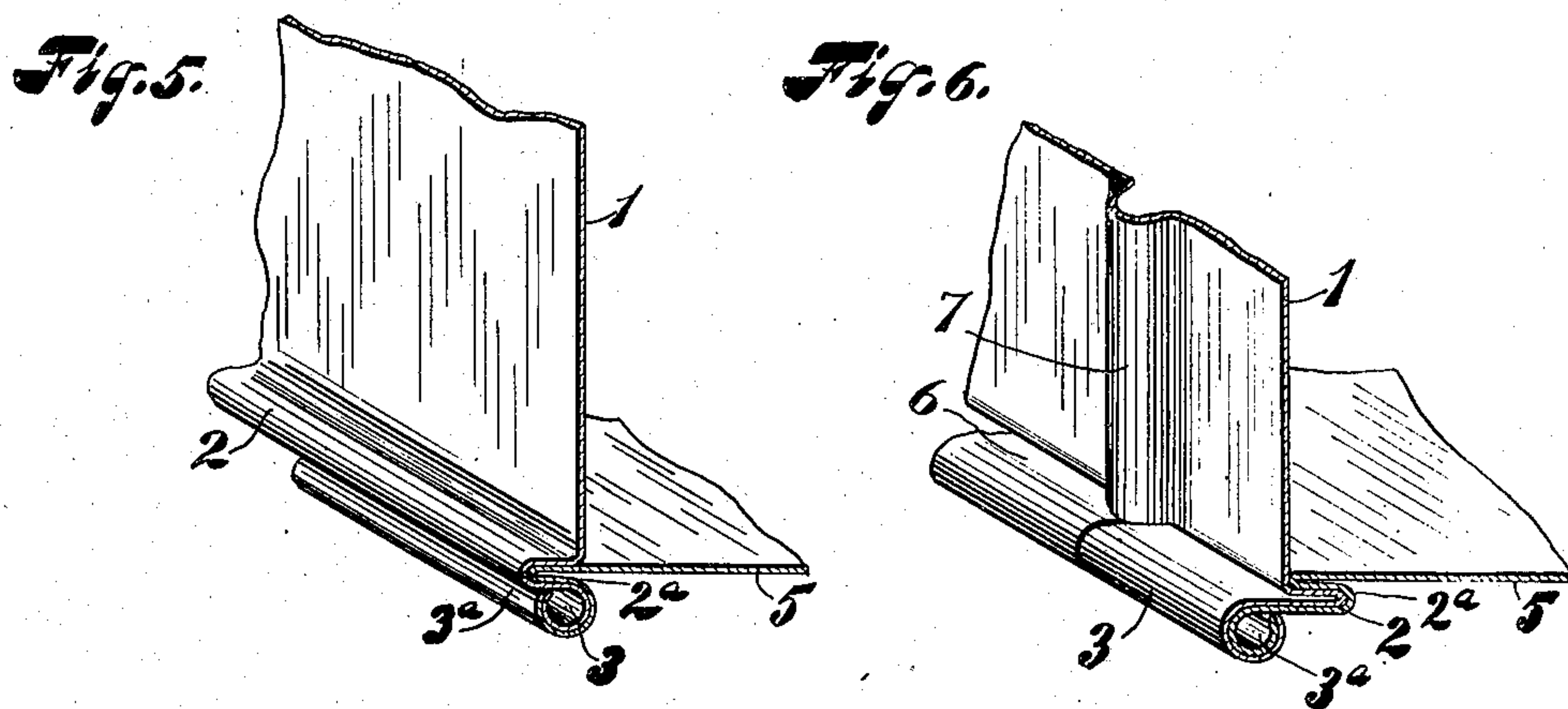
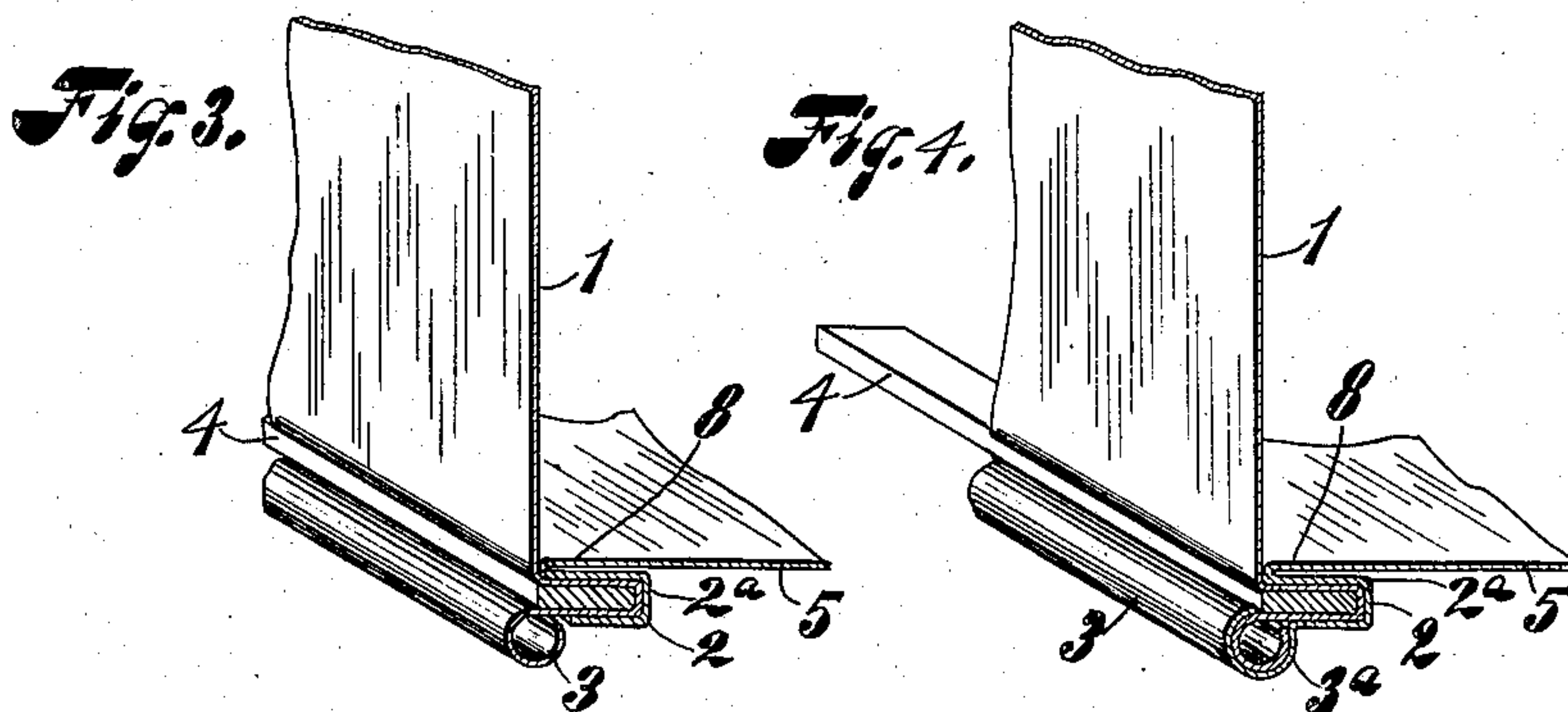
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ALFRED T. KRUSE, OF DEFIANCE, OHIO, ASSIGNOR TO THE AMERICAN STEEL PACKAGE COMPANY, OF DEFIANCE, OHIO, A CORPORATION OF OHIO.

SHEET-METAL PACKING-CASE.

No. 881,418.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed September 5, 1906. Serial No. 333,235.

To all whom it may concern:

Be it known that I, ALFRED T. KRUSE, a citizen of the United States, residing at Defiance, in the county of Defiance and State of Ohio, have invented certain new and useful Improvements in Sheet-Metal Packing-Cases, of which the following is a specification.

My invention relates to improvements in sheet-metal packing-cases of that class or type designed, primarily, for the transportation and storage of liquids contained in bottles and similar vessels.

The invention relates more particularly to improvements in the construction of, and means for securing, the meeting edges of the bottom and side and end walls of packing-cases of this class whereby this portion of the case is greatly stiffened and strengthened, and a generally-improved bottom-supporting flange and friction-bearing-beading is formed which will be less liable to rust or damage than any other invention of the same class with which I am acquainted.

With these ends in view, the invention consists in the novel construction, arrangement, and combination of parts, hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

Referring to the drawings, forming a part of this specification, Figures 1, 2, 3, 4, 5, and 6, are perspective views of broken away portions of the wall and bottom of a case, showing manner of constructing and connecting the meeting edges thereof to form a bottom-supporting-flange and friction-bearing-beading in accordance with my invention and illustrating, respectively, various forms and modifications of the same as hereinafter more fully described.

Similar characters of reference designate like parts throughout all the figures of the drawings.

The side or end wall 1, is bent or crimped to form a bottom-supporting-flange or ledge 2, which, as shown in Figs. 1, 2, 3, 4, and 6, extends inwardly, and, as shown in Fig. 5, extends outwardly, to support the marginal edges of the bottom, as hereinafter more fully described. After forming the supporting-flange 2, the marginal edge of the wall is bent over and about to form a beading 3, which, as shown in Figs. 3, 4, and 6, is bent inwardly with the extreme edge terminating beneath and against the lower fold of the flange 2,

and, as shown in Figs. 3, 4, and 5, is substantially beneath and in the same plane or in alinement with the wall 1, above.

As shown in Figs. 3, and 4, the flange 2, may be further supported and strengthened by means of a reinforcing flat strip or bar of metal 4, the broadest surface of said strap being in a horizontal plane.

In Fig. 5, the outwardly-extending-flange 2, and the beading 3, are reinforced by means of a second or companion flange 2^a, and beading 3^a, of the bottom 5, which take into and over said flange 2, and beading 3, respectively, forming a double flange and beading, while in Fig. 6, the inwardly-extending flange 2, and beading 3, are reinforced by means of a flange 2^a and beading 3^a, which take over and into said flange 2, and beading 3, respectively, forming a double flange and beading. Furthermore, in said figure the parts are further strengthened and stiffened by means of an extension portion 6, abutting against the end of a vertical rib 7, formed in the wall 1.

In Figs. 3, and 4, the bottom 5, has its marginal edges bent over and about forming a marginal fold 8, and a flange 2^a, the latter taking over the reinforced inwardly-extending supporting-flange 2, and the former resting on the upper portion of the bottom-flange 2^a, and abutting against the adjacent wall 1. In Fig. 4, it will be observed that the lower portion of the flanges 2^a, extends within the beading 2, and is bent over and about forming a second or inner reinforcing beading 3^a, therein.

In Fig. 1, and 2, the inwardly-extending flange 2, terminates in a downwardly-extending portion 9, in alinement or in the same vertical plane with the wall 1, and the edge of the wall portion 1, is bent outwardly and over and about from said downwardly-extending portion 9, forming the beading 3, outside of the vertical plane of the wall with the extreme edge "b" resting against and abutting the downwardly-extending portion 9. The bottom 5, in this instance, is secured about the wall 1, just above the flange 2, by means of an upwardly-extending flange 10, and rivets 11. It will be observed that the marginal edges of the bottom 5, rest directly on and are supported by the flange 2, and in Fig. 1, it will be observed, that the bottom is provided with a downwardly-extending rib portion 12, having its end or shoulder-portion

tion 13, abutting against the inner edge of the flange 2.

Having thus described my invention, without having attempted to set forth all the forms in which it may be made, or all the modes of its use, I declare that what I claim and desire to secure by Letters Patent is,—

1. In a packing-case, a wall provided with a lateral flange near its lower edge, a bottom having a peripheral flange resting on said lateral flange and a depending portion below said peripheral flange, the depending portion of the bottom and the part of the wall below the lateral flange being rolled into a double walled beading.

2. In a packing-case, a wall provided with a bottom-supporting-flange a rib abutting against said flange and a friction-bearing beading, and a bottom provided with a marginal flange mounted on and registering with said bottom-supporting-flange.

3. In a packing-case, a wall provided with a bottom-supporting-flange and a friction-bearing beading, and a bottom provided with a companion supporting-flange in register-

ing engagement with the other and a depending-rib having its ends abutting against said last mentioned flange.

4. In a packing-case, a wall and bottom having their marginal edges bent over and about each other forming a double-walled horizontally-extending bottom-supporting-flange and terminating in a double-walled friction-bearing-beading.

5. In a packing-case, a wall and bottom having their marginal edges interfolded so as to form a double-walled horizontally-extending bottom-supporting-flange said marginal edges terminating in a depending double-walled friction-bearing-beading, and said wall having a vertical rib abutting against said bottom-supporting-flange.

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

ALFRED T. KRUSE.

Witnesses:

R. W. WORTMAN,
O. C. BILLMAN.