

(Model.)

J. J. HEIM.  
METALLIC HOOP KEEPER.

No. 273,076.

Patented Feb. 27, 1883.

Fig. 1

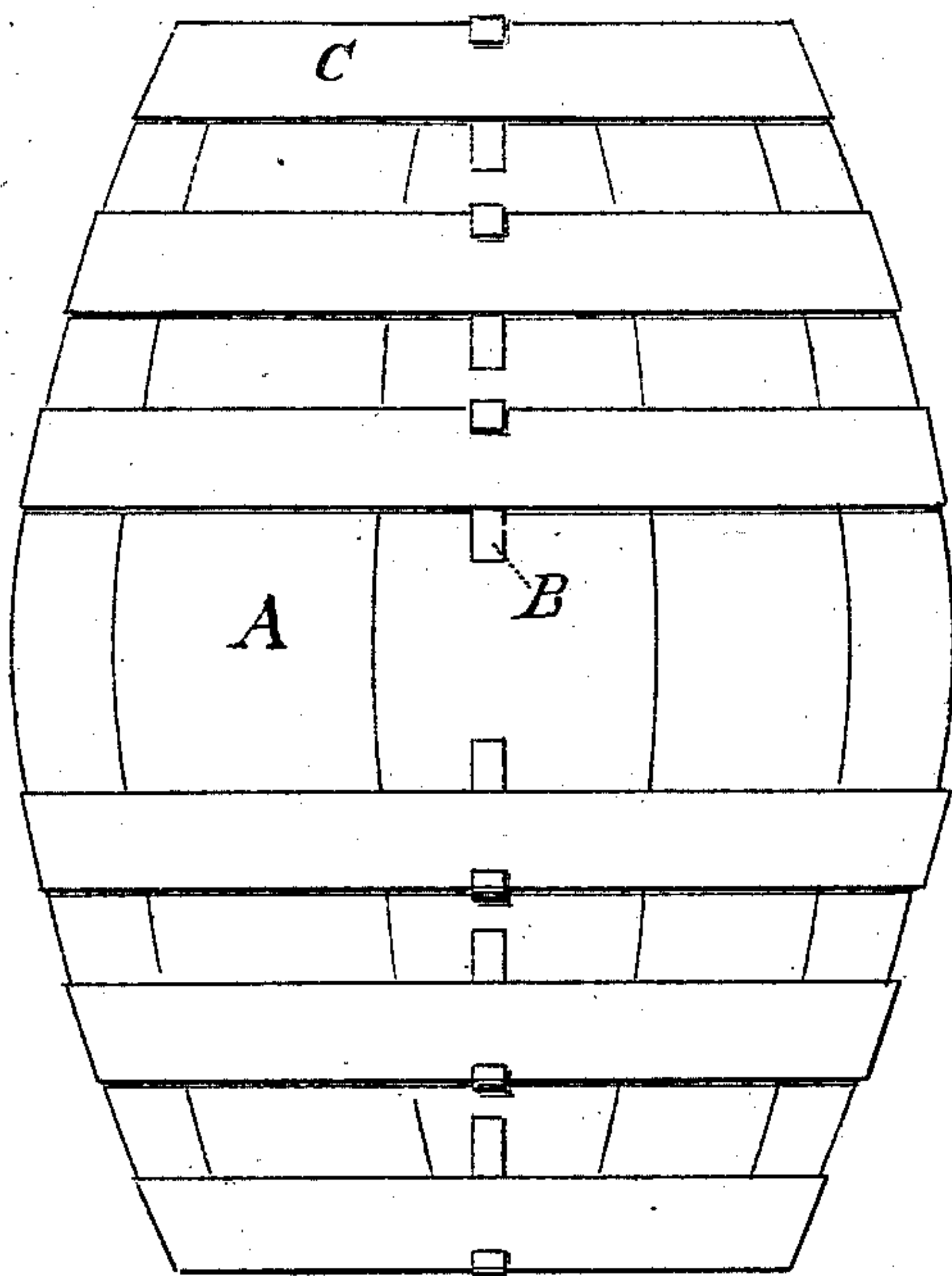


Fig. 2

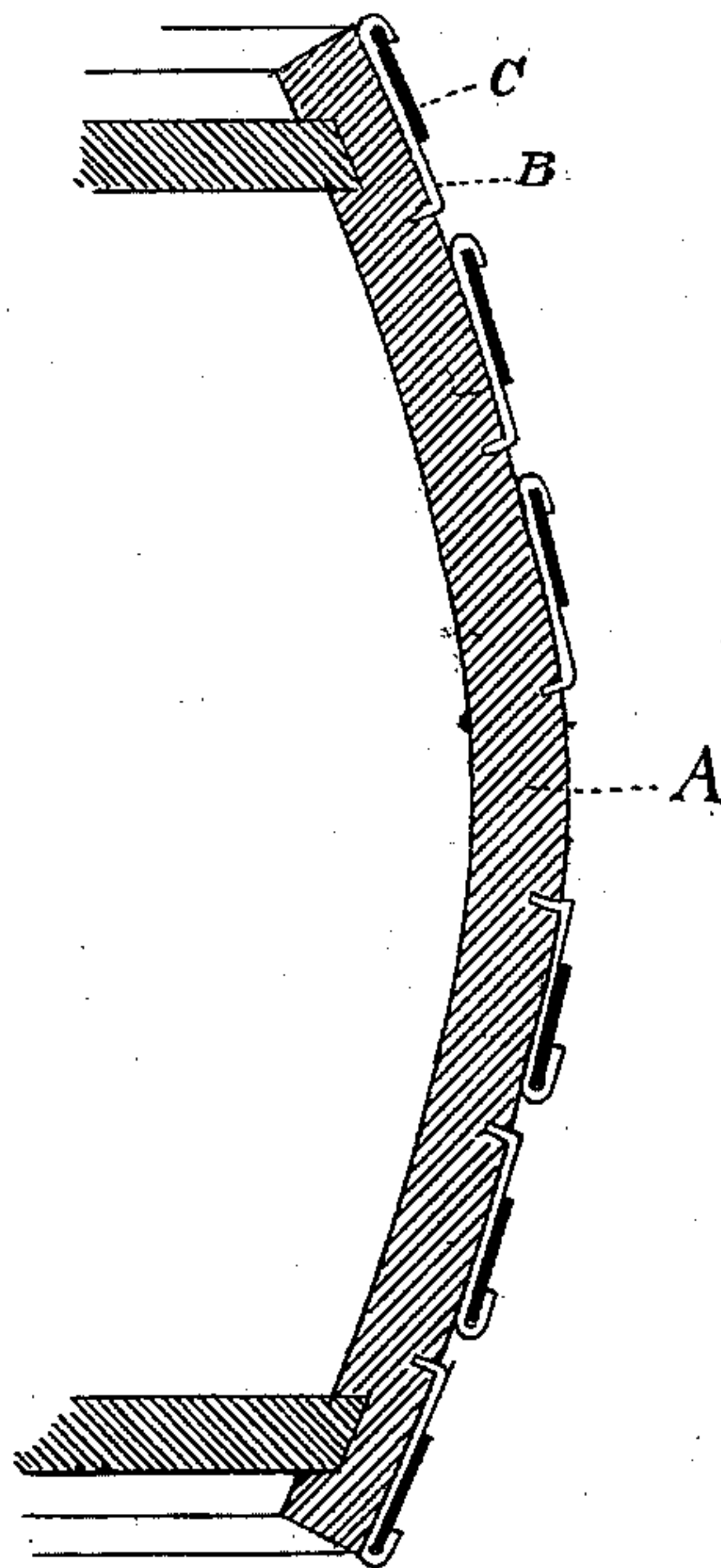


Fig. 3 Fig. 4

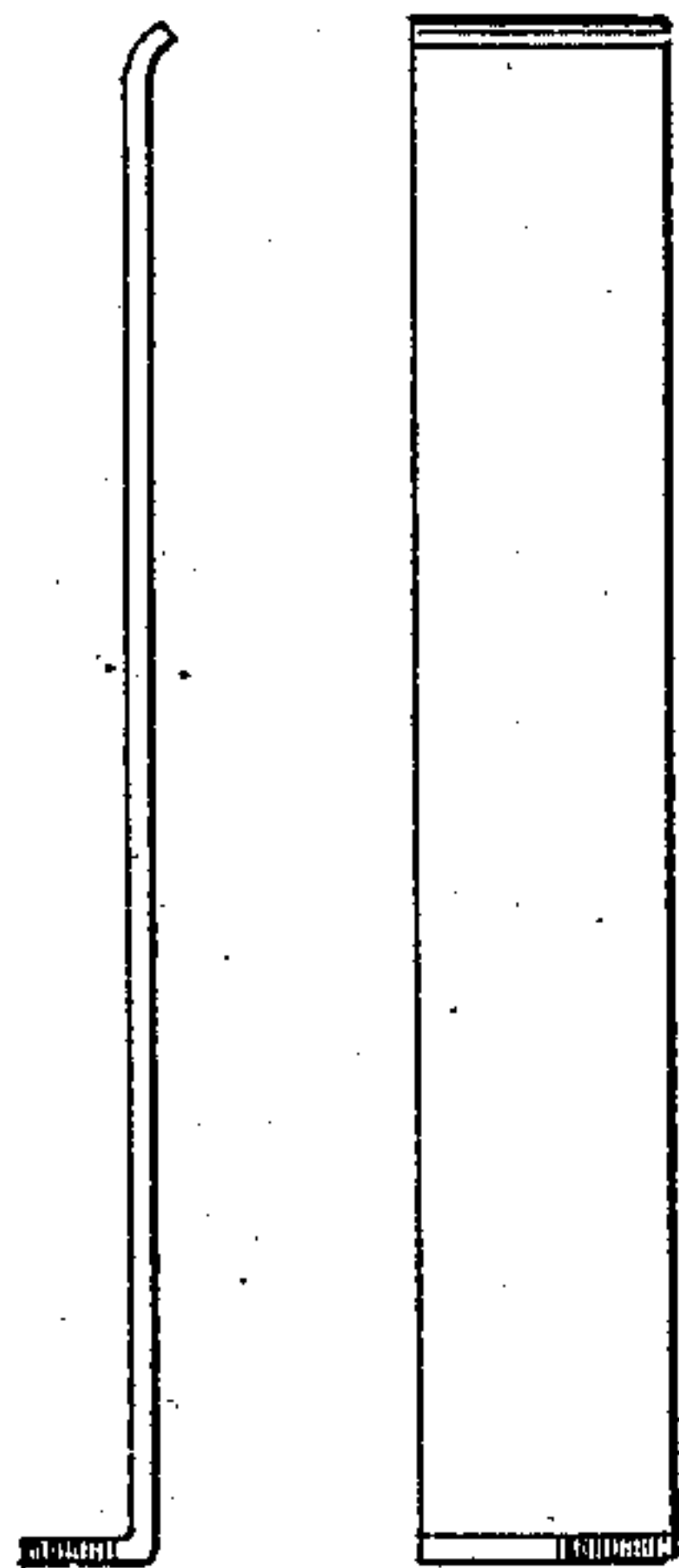
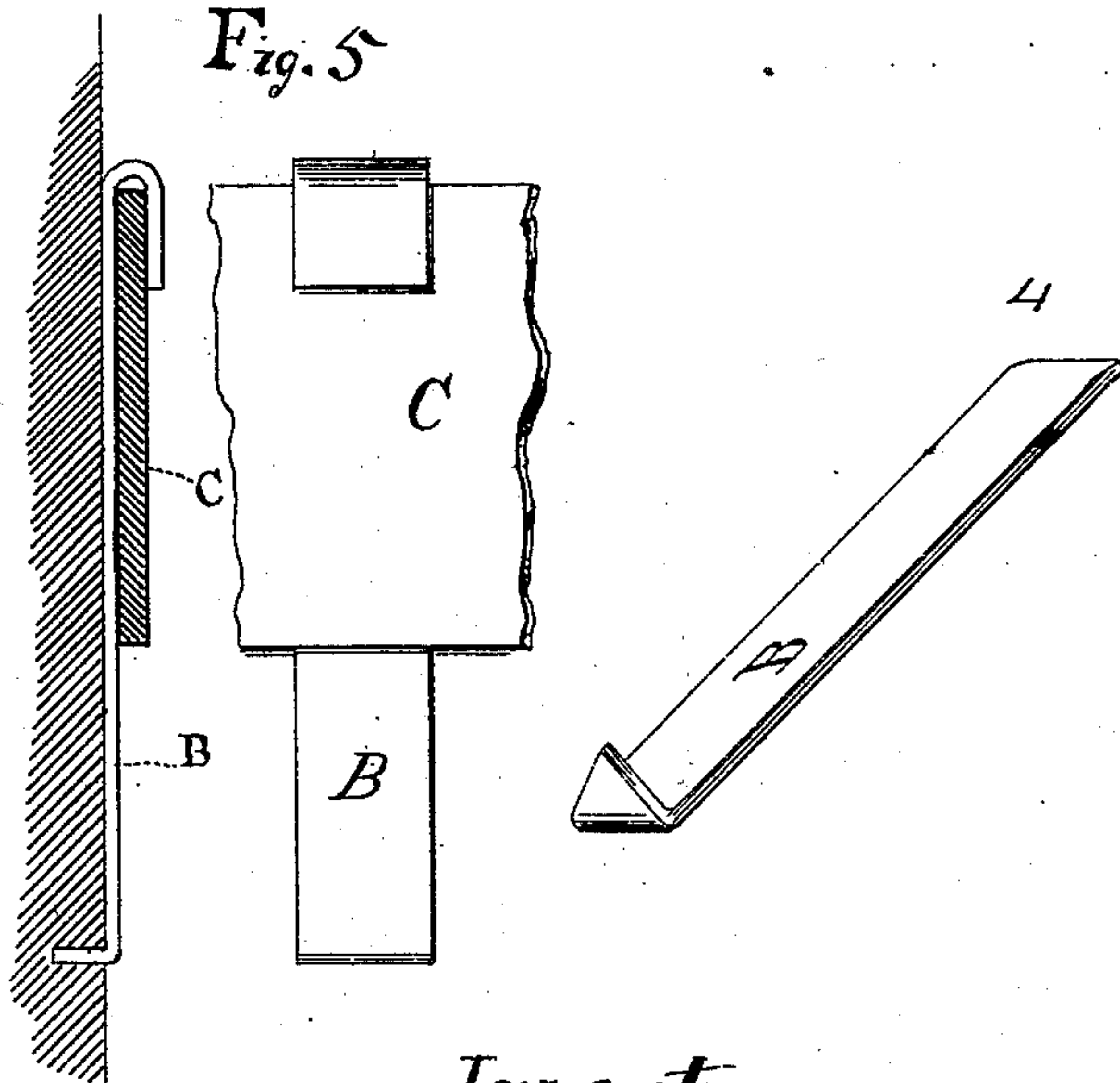


Fig. 5



Witnesses

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# UNITED STATES PATENT OFFICE.

JOSEPH J. HEIM, OF EAST ST. LOUIS, ILLINOIS.

## METALLIC HOOP KEEPER.

SPECIFICATION forming part of Letters Patent No. 273,076, dated February 27, 1883.

Application filed April 8, 1882. (Model.)

*To all whom it may concern:*

Be it known that I, JOSEPH J. HEIM, a citizen of the United States, residing at the city of East St. Louis, State of Illinois, have invented a new and useful Metallic Hoop Keeper, of which the following is a specification.

My invention relates to improvements in fastening and keeping metallic hoops confined to their respective places on barrels, kegs, and other vessels wherever metallic hoops are used; and the objects of my improvements are, first, to provide metallic keepers for said purpose; second, to so construct and arrange said keepers that in driving the hoops tight on said barrels or other vessels over the surfaces of the keepers the hoops will be confined in their respective places as the same are driven, the upper end of the keeper being driven over the edge of the hoops in the same act of driving the hoops to their respective seats. I attain this object by the mechanical shape and arrangement of the keeper, as illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of the barrel A. Fig. 2 is a vertical section of a stave of the barrel A. Fig. 3 is a side view of the keeper B, enlarged. Fig. 4 are views of the keepers B next the barrel A. Fig. 5 are views of the keepers B and hoops C in their relative positions when driven, enlarged.

Similar letters refer to similar parts throughout the several views.

In the stave of the barrel or other vessel A which is to be hooped the tang of the keeper B, on its face side, is driven at a suitable distance below the lower edge line of the hoop when seated, the upper end of the keeper B extending a suitable distance above the upper edge of the hoop to insure sufficient length to turn over the hoop and clinch on the upper edge of hoop C in the act of driving said hoops C to

their relative seats on the vessel. The keepers B, I make of any suitable malleable metal and of length and width required, and applied in any number to each hoop as may be desired, as shown in Figs. 1 and 2.

I do not claim, broadly, the following, viz: a metallic strip having one or more points on its lower end, a shoulder to support the hoop, and a turned-over edge at the top, the strip being adjustable upon the side of the pail.

I am aware that barrels and other vessels hooped with metal hoops are in general use, and do not claim any part thereof as my invention; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a stave vessel and a hoop thereon, of a flexible hoop-keeper connected directly to the stave by a device embedded therein to prevent endwise motion, and consisting also of a plain portion extending under the hoop, and an upwardly-projecting portion abutting against the chine side of the hoop, as shown and described, whereby the hoop is kept and may be tightened and kept by driving it over the keeper and further bending the projection thereof.

2. The combination, with a stave vessel and a hoop thereon, of a flexible hoop-keeper consisting of a portion which is embedded in the stave, a plain portion, over which the hoop can freely slide, extending under the hoop, and a projecting portion abutting against the chine side of the hoop, as shown and described, whereby the hoop is kept and may be tightened and kept by driving it over the keeper and further bending the projection thereof.

JOSEPH J. HEIM.

Witnesses:

E. J. EGGMANN,  
FERDINAND HEIM, Jr.