

C. BUCKNER, Jr.
Joint-Holders.

No. 154,580.

Patented Sept. 1, 1874.

FIG. 1.

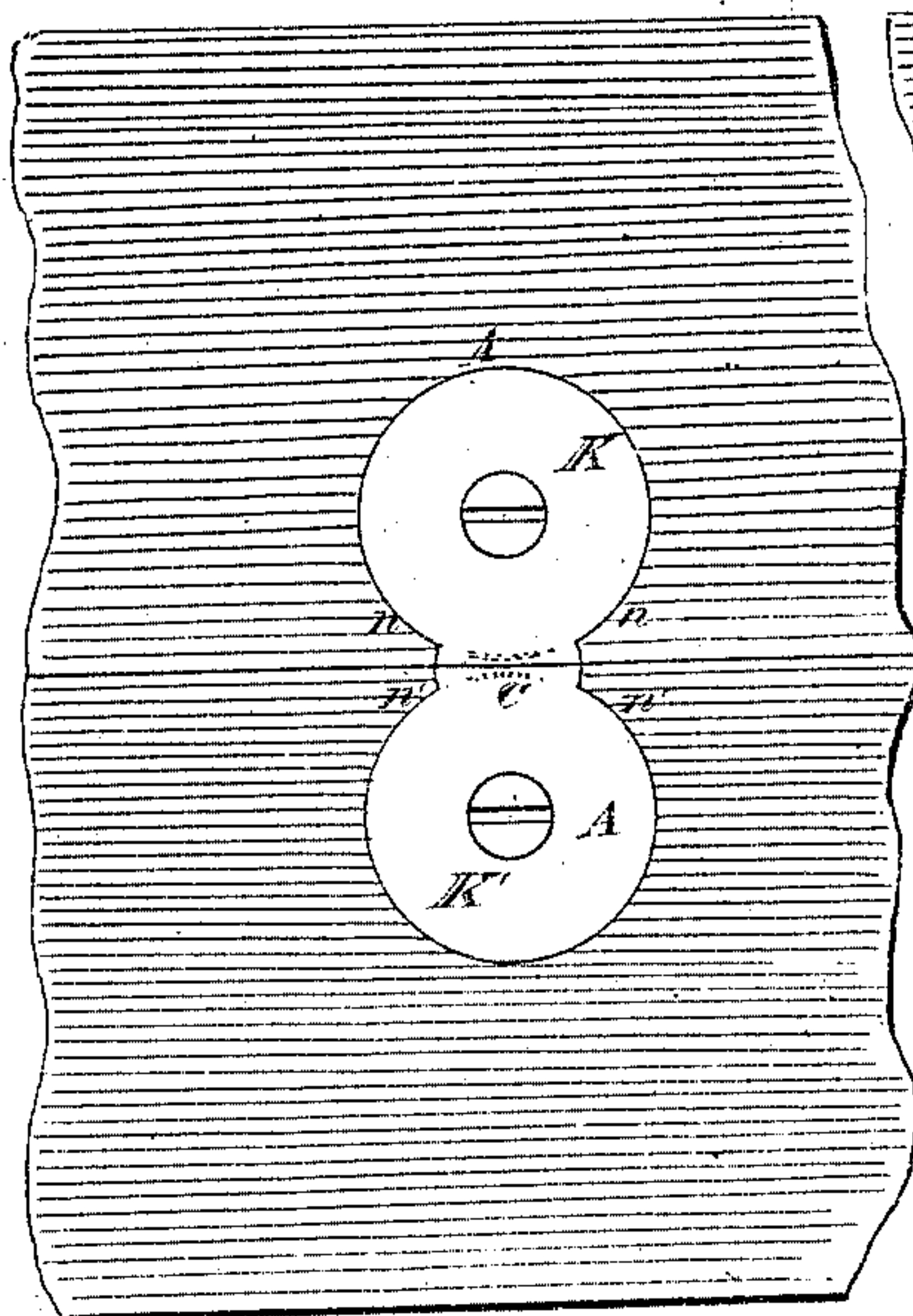


FIG. 2.

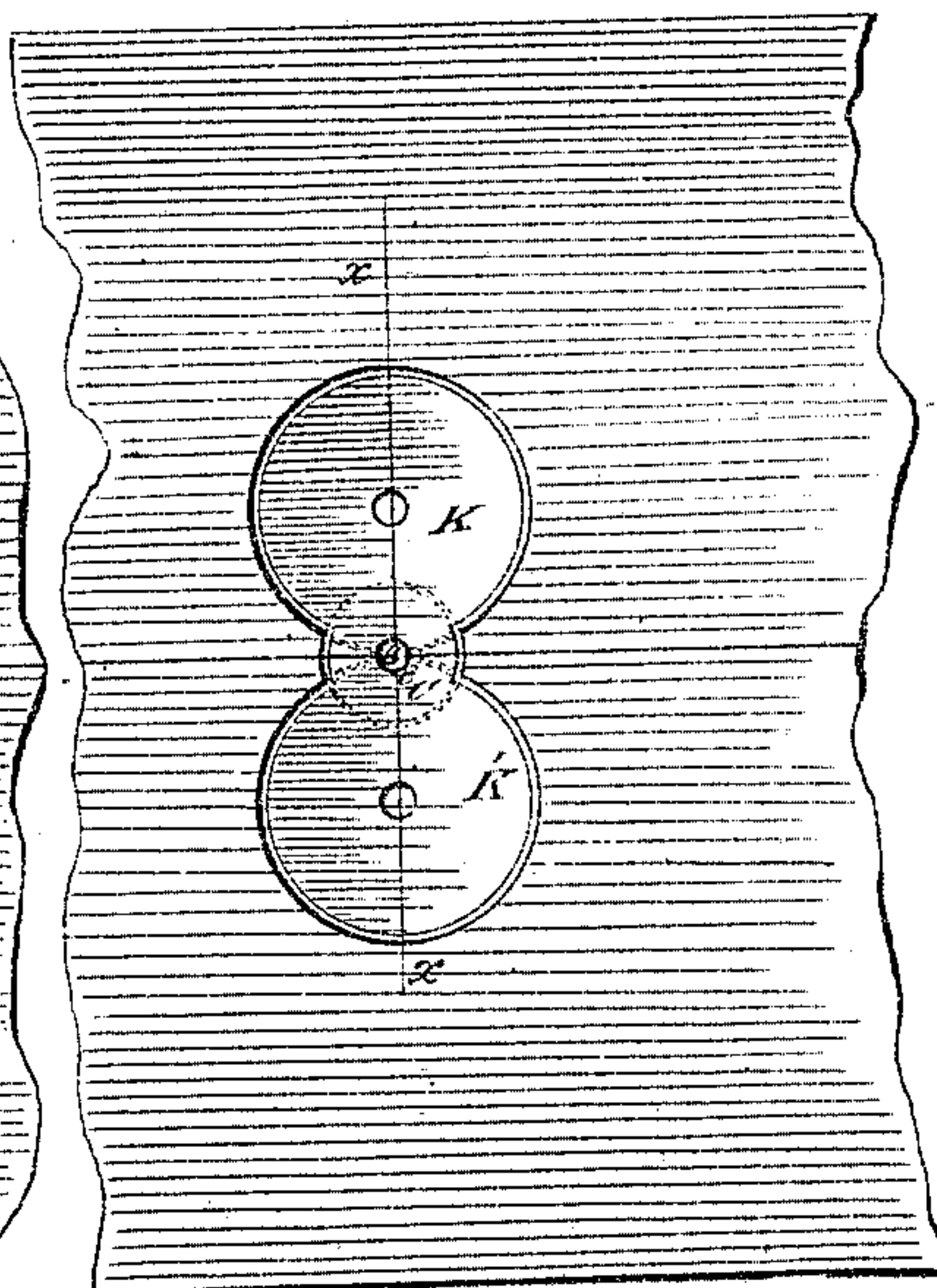


FIG. 3.

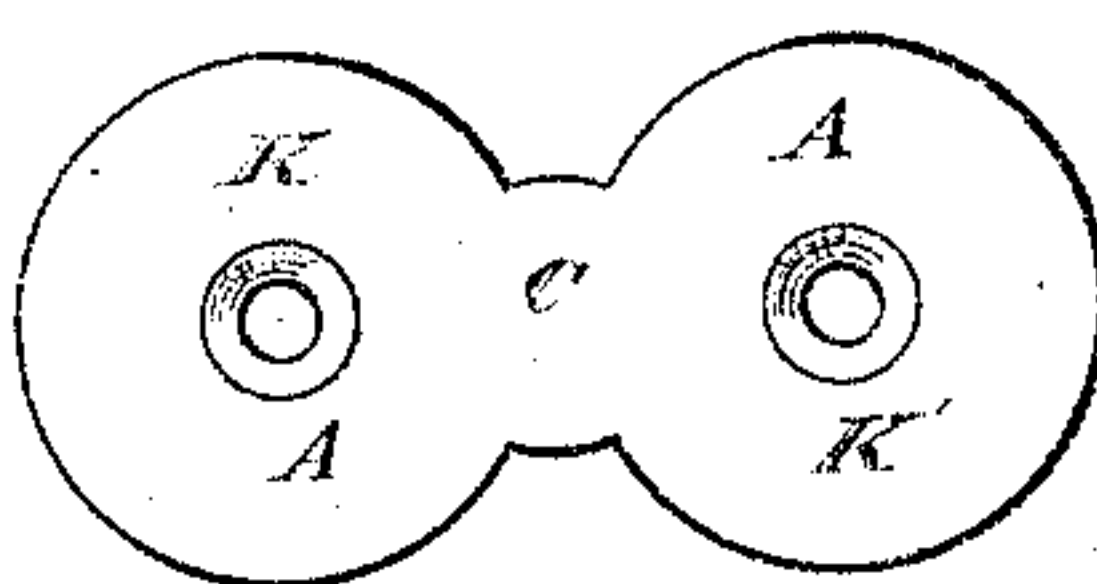
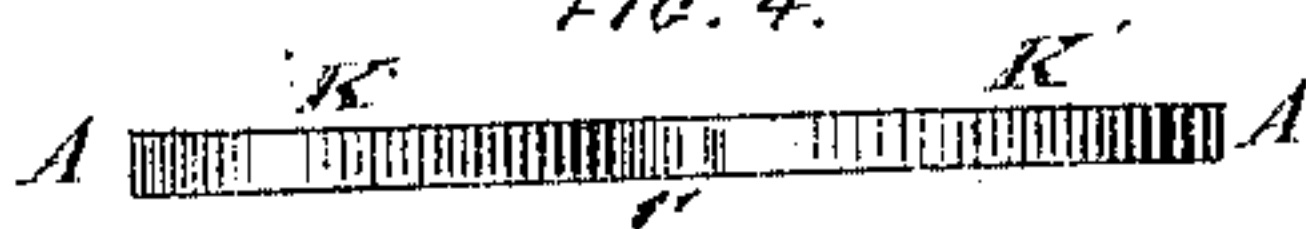


FIG. 4.



Witnesses:

Algenon S. Austen
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Inventor:

Charles Buckner, Jr.
Per atty - Lionel Varicas

UNITED STATES PATENT OFFICE.

CHARLES BUCKNER, JR., OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF
ONE-HALF HIS RIGHT TO JOHANN H. A. LUDWIG, OF SAME PLACE.

IMPROVEMENT IN JOINT-HOLDERS.

Specification forming part of Letters Patent No. 154,580, dated September 1, 1874; application filed
April 14 1874.

To all whom it may concern:

Be it known that I, CHARLES BUCKNER, JR., of the city and county of San Francisco, State of California, have invented a Joint Holder or Brace, of which the following is a specification:

My invention relates to a metallic band of peculiar shape, for binding the joints of boards together so as to keep such joints close and tight under all circumstances; and consists of a flat strip of metal, shaped by describing a small central and two large outer circles, whose peripheries nearly meet in the center of the smaller circle, in order to fit it to a similarly-arranged excavation cut out equally from each of two boards requiring to be fitted to one another, so that when this holder is driven into the same, flush with these boards, and screwed, nailed, or otherwise fastened to each, no spreading of the joint can possibly occur.

Figure 1 is a plan of two pieces of board joined together by the joint-holder embodying my invention. Fig. 2 is a plan of the two pieces of board, shown prepared by a bit to receive the joint-holder embodying my invention. Figs. 3 and 4 are a plan and side view, respectively, of a joint-holder embodying my invention.

With reference to the drawing, A A is the joint-holder embodying my invention, and consists of a flat piece of suitable metal, of about three-sixteenths of an inch in thickness, and is shaped by describing a small circle, say of one-quarter of an inch in diameter, and describing two outer circles of about twice that size, in such manner that the centers of all three circles shall be in a straight line, and the peripheries of the two larger circles to nearly meet in the center of the smaller circle, as shown in Fig. 1. The space covered by these circles gives the form of this joint-holder.

When this holder is applied to secure two pieces of board, the boards are placed together in the position they are required to be joined, and at the place where the holder is to be fixed a line is drawn at right angles to the seam. At the point of junction *e* (see Fig. 2) a small circle, C, is described with an ordinary bit, equal to that forming the neck of the holder to be inserted, and excavated to the proper depth, and on this line *x x* two larger circles, K K', of equal size, are also described and excavated in the same manner, so that their peripheries exactly meet in the center *e*. The holder will, on this account, be slightly larger than the excavation, and this difference allows of it being driven in and retained, and also further secured by screws or nails adapted to holes provided in the centers of the portions K K', which fasten to the wood of each board, so as to bind the whole firmly together.

By this general arrangement of a joint-holder, the neck C being inserted in the seam, as described, the body parts K K' will act as wedges on the wood at *n n* and *n' n'*, in the event of boards thus fastened commencing to spring apart, and the tendency is to break out these portions of the boards before allowing of such separation.

I claim as my invention—

As a new article of manufacture, a metallic joint-holder, A A, consisting of body-pieces K K', connected by a neck, C, arranged to prevent the spreading of joints in wood, in the manner described, substantially as herein set forth.

CHARLES BUCKNER, JR.

Witnesses:

JOHN HAMILL,
LIONEL VARICAS.