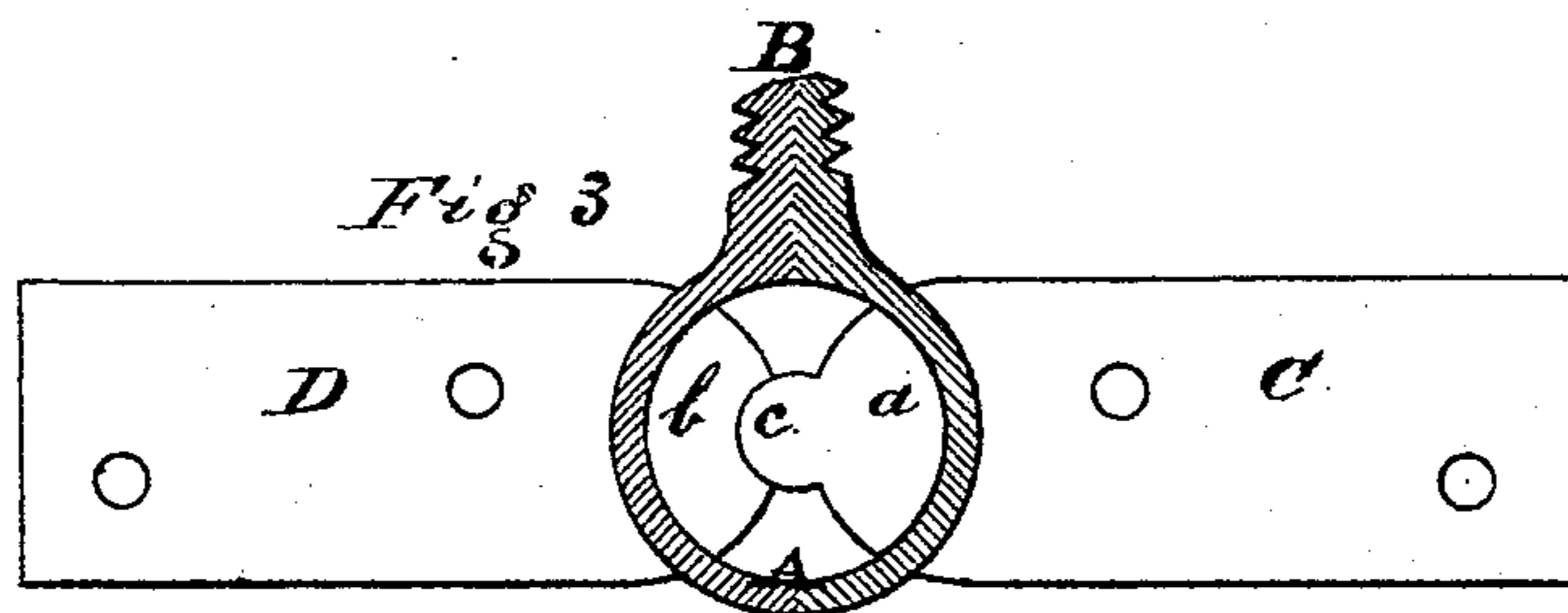
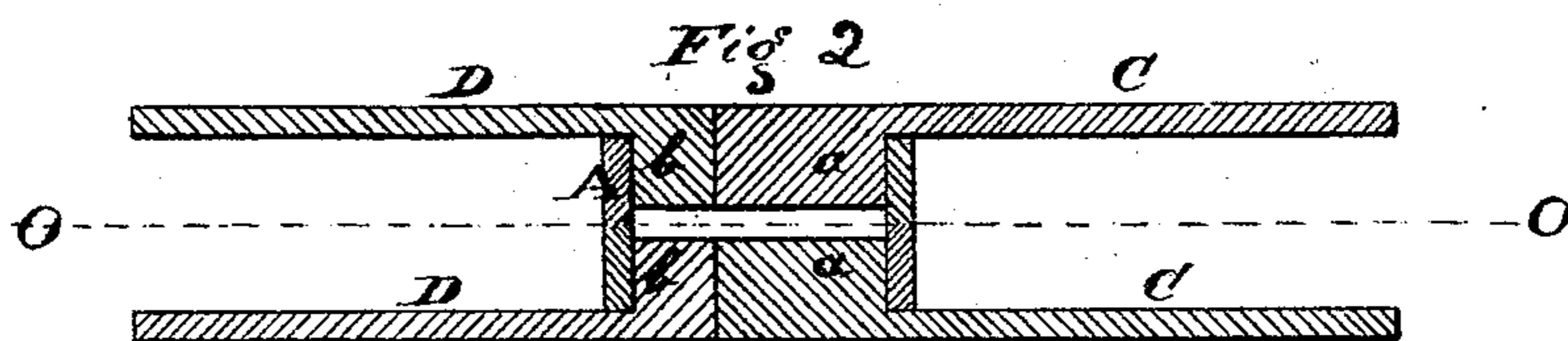
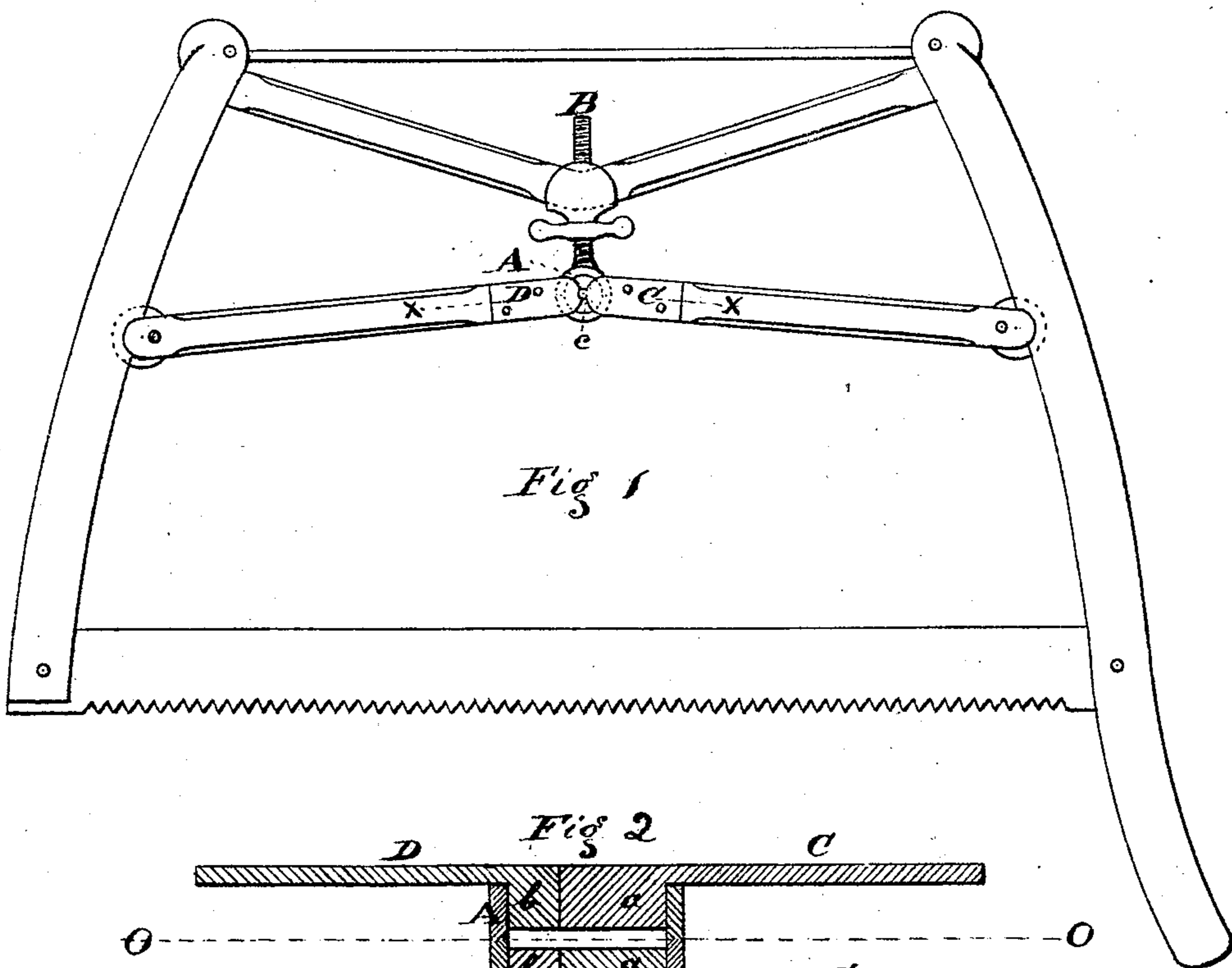


GEORGE R. KIMBALL.

Improvement in Toggle Joints for Saw Frames.

No. 123,998.

Patented Feb. 27, 1872.



E. L. Brundage
Hugh Duffy witnesses

Inventor
Geo R Kimball

UNITED STATES PATENT OFFICE.

GEORGE R. KIMBALL, OF MIDDLETOWN, NEW YORK.

IMPROVEMENT IN TOGGLE-JOINTS FOR SAW-FRAMES.

Specification forming part of Letters Patent No. 123,998, dated February 27, 1872; antedated February 17, 1872.

I, GEO. R. KIMBALL, of Middletown, in the county of Orange and State of New York, have invented an Improvement in the Construction of a Toggle-Joint to be applied to toggle-bars in buck-saw frames or for other purposes, of which the following is a specification:

My invention consists of plates having a raised part or thickness on one end, which hook into a ring; said plates are riveted or otherwise made fast to toggle-bars, so as to form a toggle-joint, the projecting part, which hooks in the ring, being fitted and forming a segment of a circle to work on the inside of the ring, and the ends meet and work together, a round end in a socket, and they are confined together by the ring.

In the accompanying drawing, Figure 1 represents the joint, as applied in a buck-saw frame, constructed the same as described in Letters Patent granted to me August 2, 1870. Fig. 2 is a full-size section in the dotted line *xx* of Fig. 1. Fig. 3 is a vertical section in the dotted line *oo*, Fig. 2, the same letters having reference to like parts in all the figures.

A is the ring, with screw B attached. C C and D D are plates made to project and hook in the ring A, as at *aa* and *bb*. A larger portion of a circle is formed on the inner end of C C, as at *c*, and fits in the hollow end of D D, and forms the joint, and the projections form segments of a circle and work in the inside of the ring A, which confines them together, and the whole constituting a firm toggle-joint. The ends of the plates abutting together, a round and a hollow, work the same as a knuckle or hinge joint, and have the advantage of perfect solidity, one end against the other.

Having thus described my invention, what I claim is—

The hooked plates C C and D D, hooking into and being confined by the ring A, the whole being combined and operating, to form a toggle-joint, substantially as described.

GEO. R. KIMBALL.

Witnesses:

E. L. BRUNDAGE,
HUGH DUFFEY.