

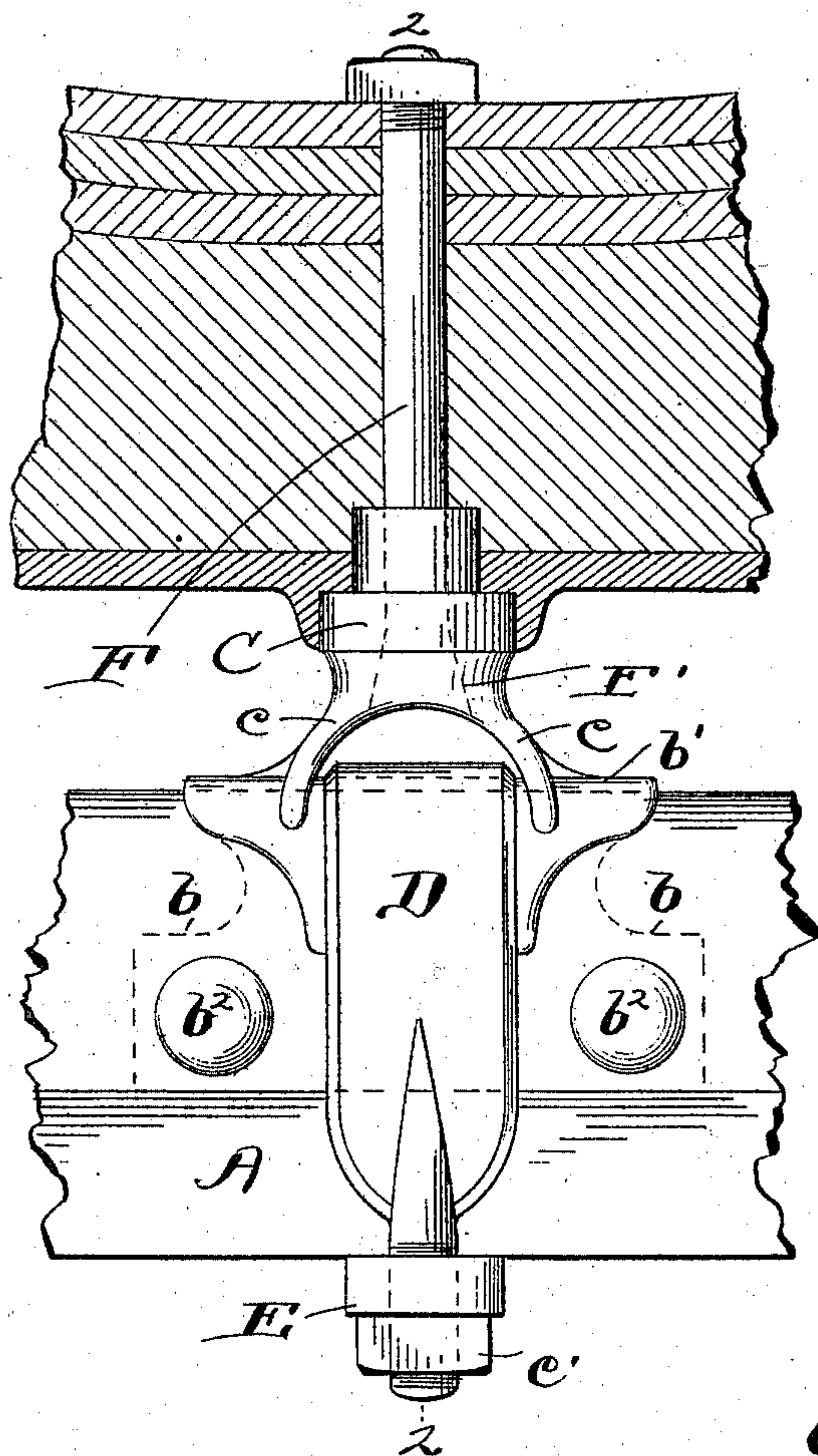
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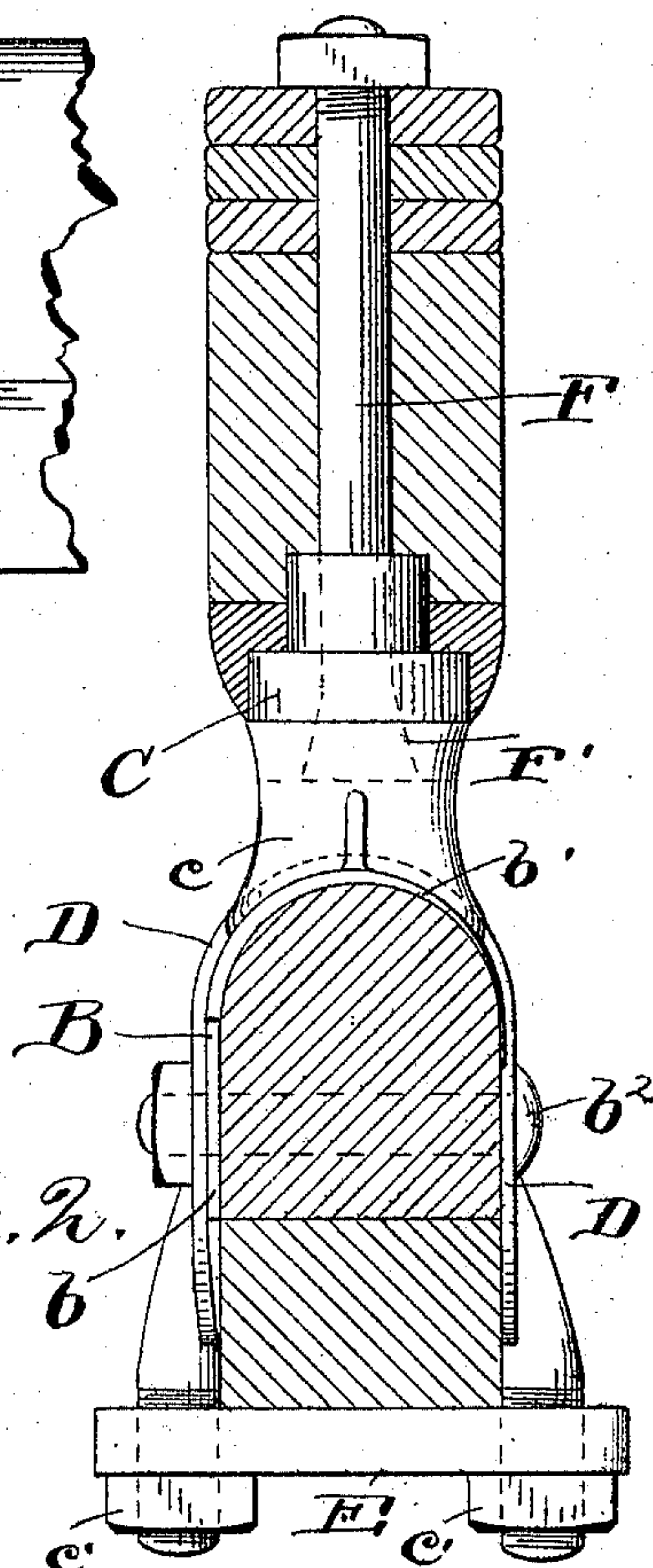
H. C. SWAN.  
KING BOLT SOCKET.

No. 575,439.

Patented Jan. 19, 1897.



*Fig. 1.*



*Fig. 2.*

Witnesses:  
E. B. Christ  
A. M. Rankin

Inventor:  
Henry C. Swan  
By E. L. Thurston  
his attorney

(No Model.)

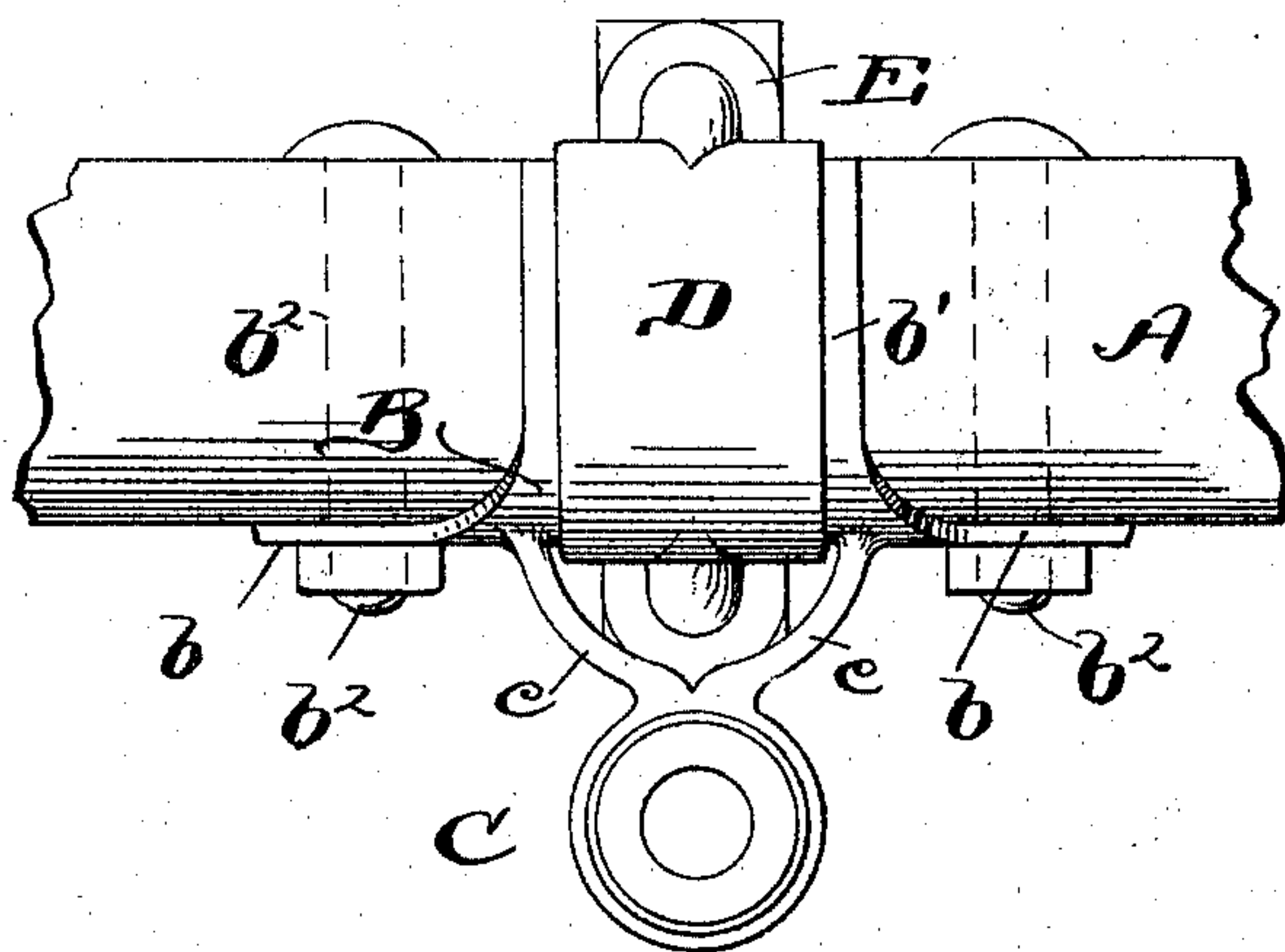
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H. C. SWAN.  
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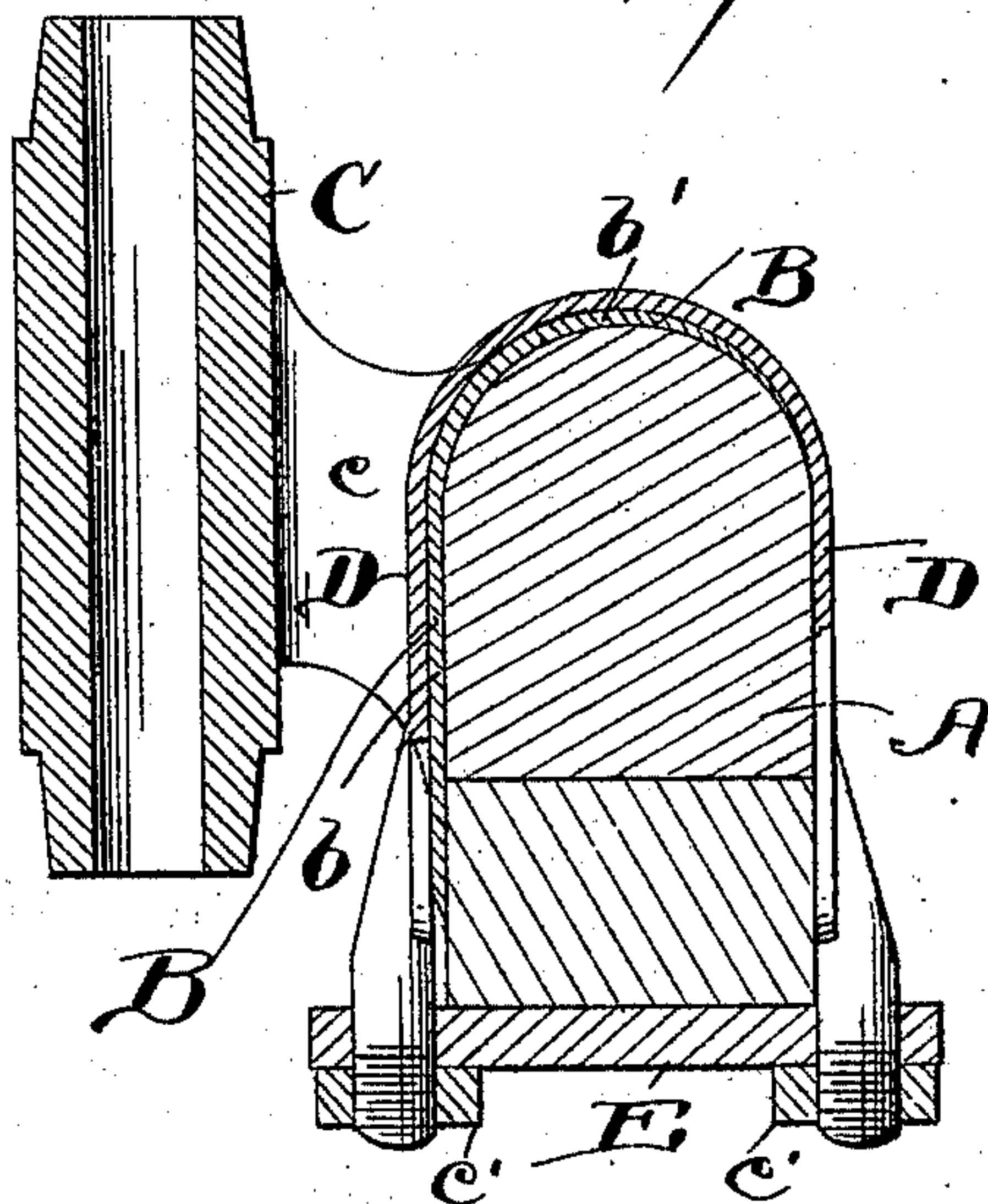
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*Fig. 3.*



*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

HENRY C. SWAN, OF OSHKOSH, WISCONSIN.

## KING-BOLT SOCKET.

SPECIFICATION forming part of Letters Patent No. 575,439, dated January 19, 1897.

Application filed July 27, 1896. Serial No. 600,709. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY C. SWAN, a citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in King-Bolt Sockets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to provide a cheap and novel king-bolt socket which may be firmly secured upon the axle by a centrally-placed two-legged clip.

The invention consists in the construction and combination of parts hereinafter described and claimed.

In the drawings, Figure 1 is a front elevation of one form of my improved construction. Fig. 2 is a sectional side view thereof on line 2 2. Fig. 3 is a plan view of another embodiment of the invention, and Fig. 4 is a side elevation thereof.

Referring to the parts by letters, A represents the front axle.

B represents a plate which consists of a substantially vertical portion *b* and a curved upper portion *b'*, which form adapts the plate to lie against the front or rear face of the axle and upon the top thereof and more or less down upon the opposite face of said axle. This plate may be secured to the axle in part by transverse bolts *b*<sup>2</sup>.

C represents the vertical king-bolt socket, which is integral with two arms *c c*, which are likewise integral with the plate B. These arms may extend upward from the top *b'* of plate B, as shown in Figs. 1 and 2, or they may extend outward from the vertical part *b* of said plate, as shown in Figs. 2 and 3. In either case the arms are separated sufficiently to permit the clip D to pass between them. When the plate B is placed upon the axle, as shown, the clip is passed between said arms *c c* and the clip-legs pass down past the front

and rear faces of the axle, embracing the plate B. The ends of said clip pass through the clip-yoke E, which lies against the under side of the axle, and the nuts *c'* screw onto the projecting ends of the clip.

In the construction shown in Figs. 1 and 2 the king-bolt F is permanently secured in the socket-piece C. This result may be attained by forming the lower end of the king-bolt with a tapered portion F', which is largest at its lower end, which tapered portion is driven into a corresponding hole of the king-bolt socket.

The construction illustrated in the drawings and hereinbefore described is, it is believed, simpler and cheaper than any other prior construction of king-bolt socket. Moreover, it permits the use of the commonest and cheapest form of clip to complete the connection between it and the axle.

Having described my invention, I claim—

1. The combination of a king-bolt socket, two diverging arms, and a plate adapted to fit upon the axle, which said parts are formed integral with each other, combined with the axle, and a clip which passes between said arms and embraces said plate and axle substantially as and for the purpose specified.

2. A combination of a plate B having a vertical portion adapted to lie against one vertical face of the axle, and a curved part adapted to lie upon the axle; two arms extending upward from said curved part, and a vertical king-bolt socket supported upon said arms, all of said parts being integral with each other, with a king-bolt secured in said king-bolt socket, and a clip which passes between said arms, and embraces said plate and axle, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY C. SWAN.

Witnesses:

E. L. THURSTON,

E. B. GILCHRIST.