

(No Model.)

G. J. OVERSHINER.  
THILL COUPLING.

No. 551,092.

Patented Dec. 10, 1895.

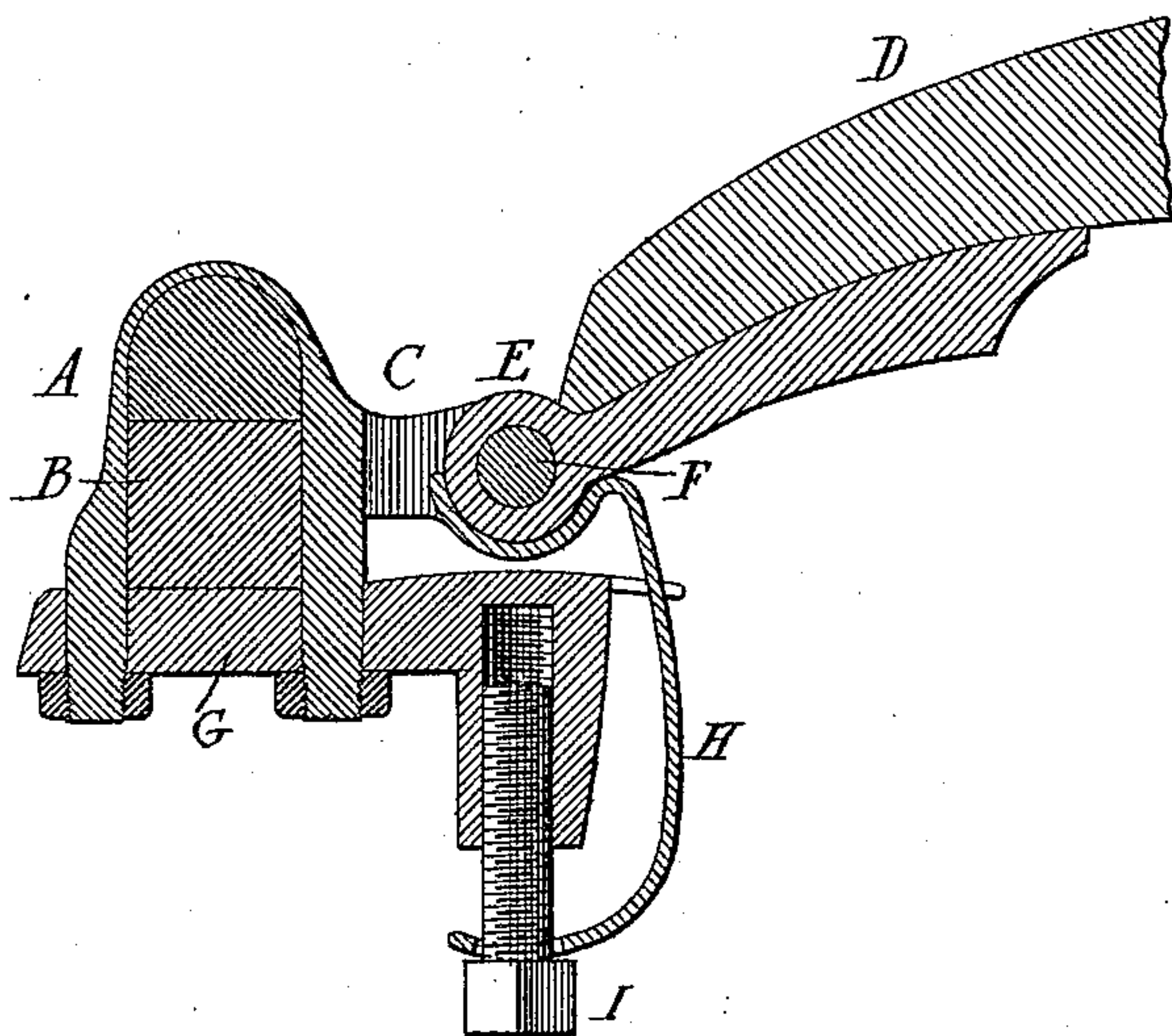


Fig. 1.

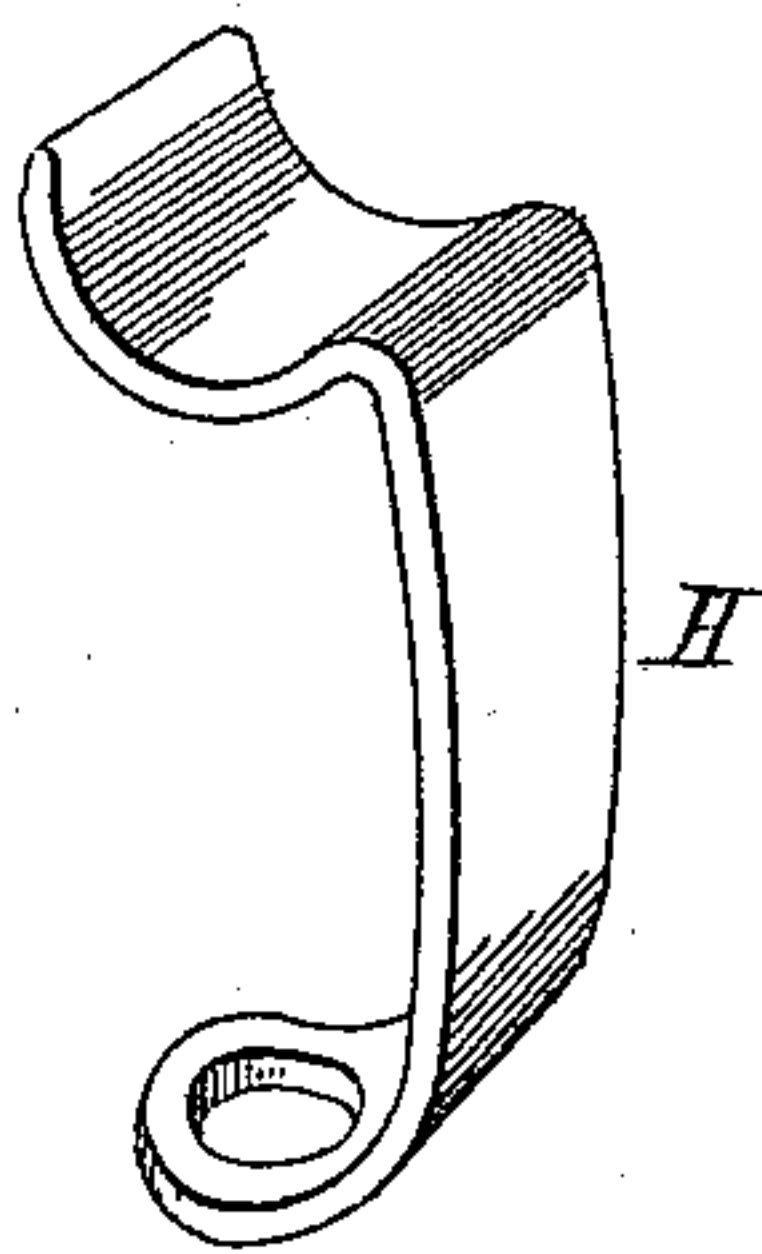


Fig. 2.

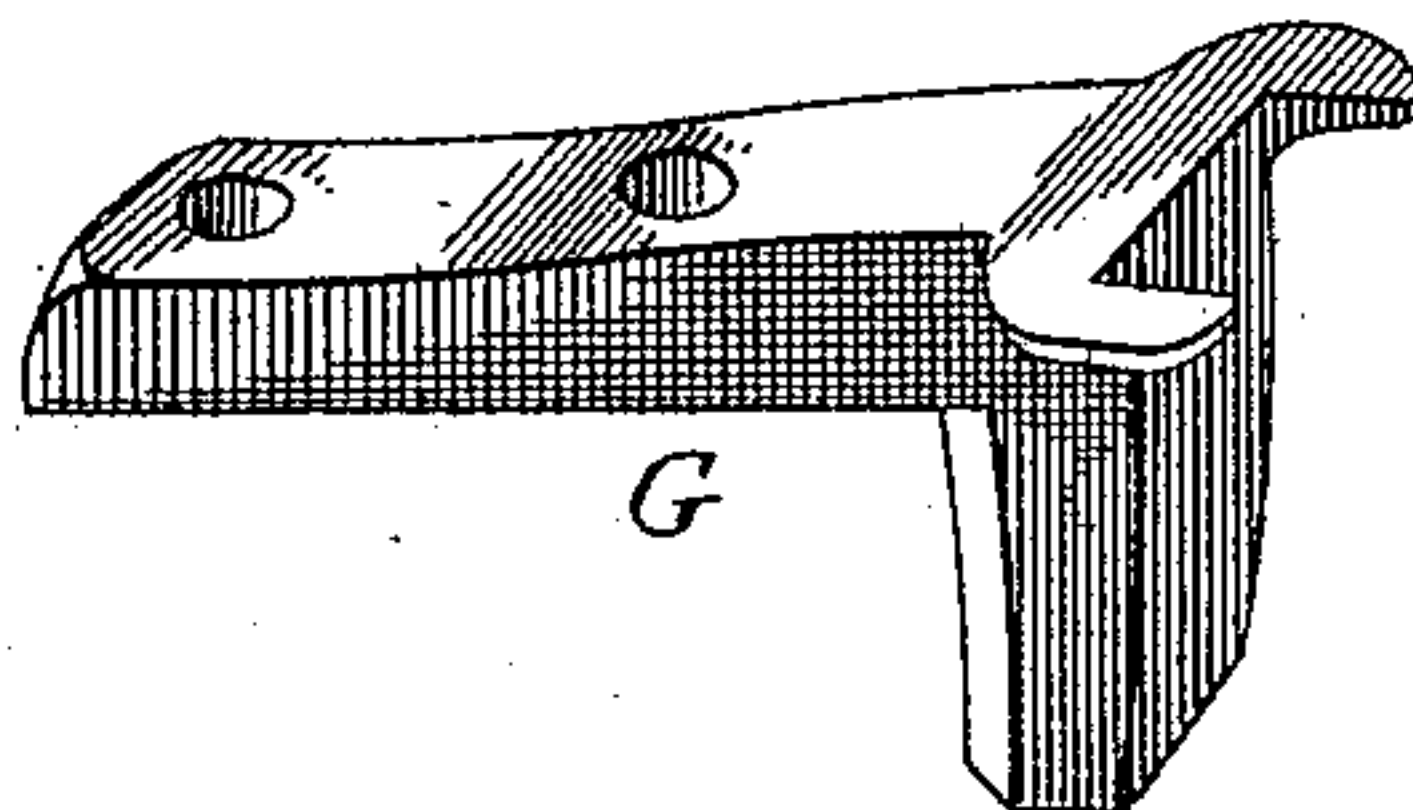


Fig. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

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## THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 551,092, dated December 10, 1895.

Application filed February 28, 1895. Serial No. 540,061. (No model.)

*To all whom it may concern:*

Be it known that I, GIDEON J. OVERSHINER, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Thill-Couplings; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to thill-couplings, and has for its object the production of improved means for preventing rattling, said means consisting generally in a spring interposed between the coupling and a binding-screw in a manner to regulate the tension of the spring to suit varying conditions.

I will now describe in detail my improved thill-coupling in connection with the accompanying drawings, in which—

Figure 1 is a vertical section of the thill-coupling. Fig. 2 is a perspective view of the spring, and Fig. 3 is a perspective view of one of the parts.

Referring to the drawings by letter, A denotes the clip which encircles the tree B and from which extend forwardly the ears C, which latter form the bearings for the coupling-pin F.

E represents the thill-iron mounted on the pin F and to which is screwed the thill D.

The yoke is shown at G and is connected as usual to the threaded lower ends of the clip by nuts. The yoke is extended forwardly and is provided at its end with a depending lug which is perforated or recessed and screw-threaded to receive the threaded end of a set-screw or bolt I. The yoke is also provided with two forwardly-projecting fingers between which is confined the antirattling spring H. This spring is provided at its upper end with a seat which conforms to and abuts against the bearing portion of the thill-iron, and the lower end of the spring is curved rearwardly and provided with an aperture to

receive the threaded portion of the set-screw or bolt.

The operation of my improved antirattler will be apparent to any one skilled in the art.

The peculiar location of the set-screw with relation to the spring and bearing insures a firm and steady pressure on the latter and effectually precludes any noise at this point.

It will be noted that the set-screw or bolt is in alignment with the center of the bearing, and the arrangement of the spring is such that the requisite pressure is attained by direct action, the tension being easily regulated. The forwardly-projecting lugs on the yoke prevent lateral displacement of the spring.

It will also be noted that a comparatively long set-screw or bolt and aperture therefor are employed, by which arrangement I can obtain any degree of tension of the spring desired, and I can also employ springs of the same size for different size couplings, or, in other words, one size spring may be adjusted to any coupling despite its distance from the lower side of the axle by setting the screw or bolt.

The invention is very simple in construction, and hence may be cheaply produced and is not liable to disorder. When the spring is properly adjusted, rattling of the parts is effectually prevented, and in the event of wear the only thing necessary is the further turning of the set-screw or bolt.

I claim as my invention—

1. The combination with a thill coupling, of a spring formed of a metallic strip and provided at its upper end with a seat conforming to the coupling proper against which it is pressed, and at its lower end with a curved portion having an aperture, the thill yoke having a downwardly projecting lug provided with a long vertical threaded socket in vertical alignment with the center of the coupling proper, and a screw or bolt passed through the aperture in the spring and into the socket, substantially as and for the purpose set forth.

2. An anti-rattling thill coupling comprising the clip having ears to which the thill iron is pivoted, the yoke attached to the clip and having a forward extension provided with two



forwardly projecting lugs, and a depending  
lug having a long threaded socket in vertical  
alignment with the coupling proper, a spring  
formed of strip metal having a seat at its up-  
5 per end for contact with the coupling proper,  
and curved outwardly and then inwardly and  
provided near its end with an aperture, said  
spring being confined between the forwardly

projecting lugs, and a set screw or bolt passed  
through the aperture and the spring and into 10  
the socket, all as and for the purposes set forth.

GIDEON J. OVERSHINER.

Witnesses:

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