

No. 833,963.

PATENTED OCT. 23, 1906.

C. G. HARRINGTON.

SHAFT HANGER.

APPLICATION FILED JAN. 8, 1906

Fig.1.

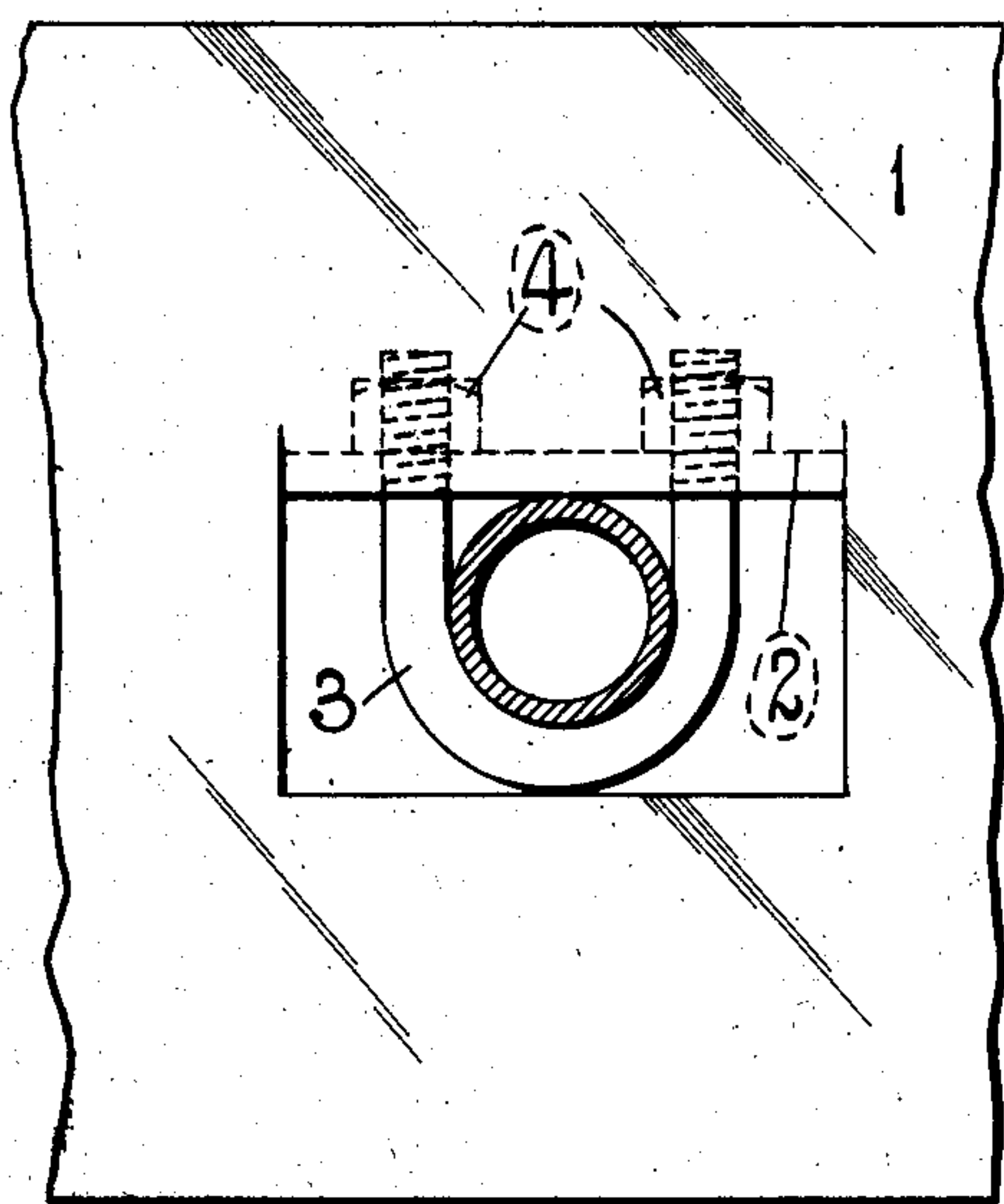


Fig.2.

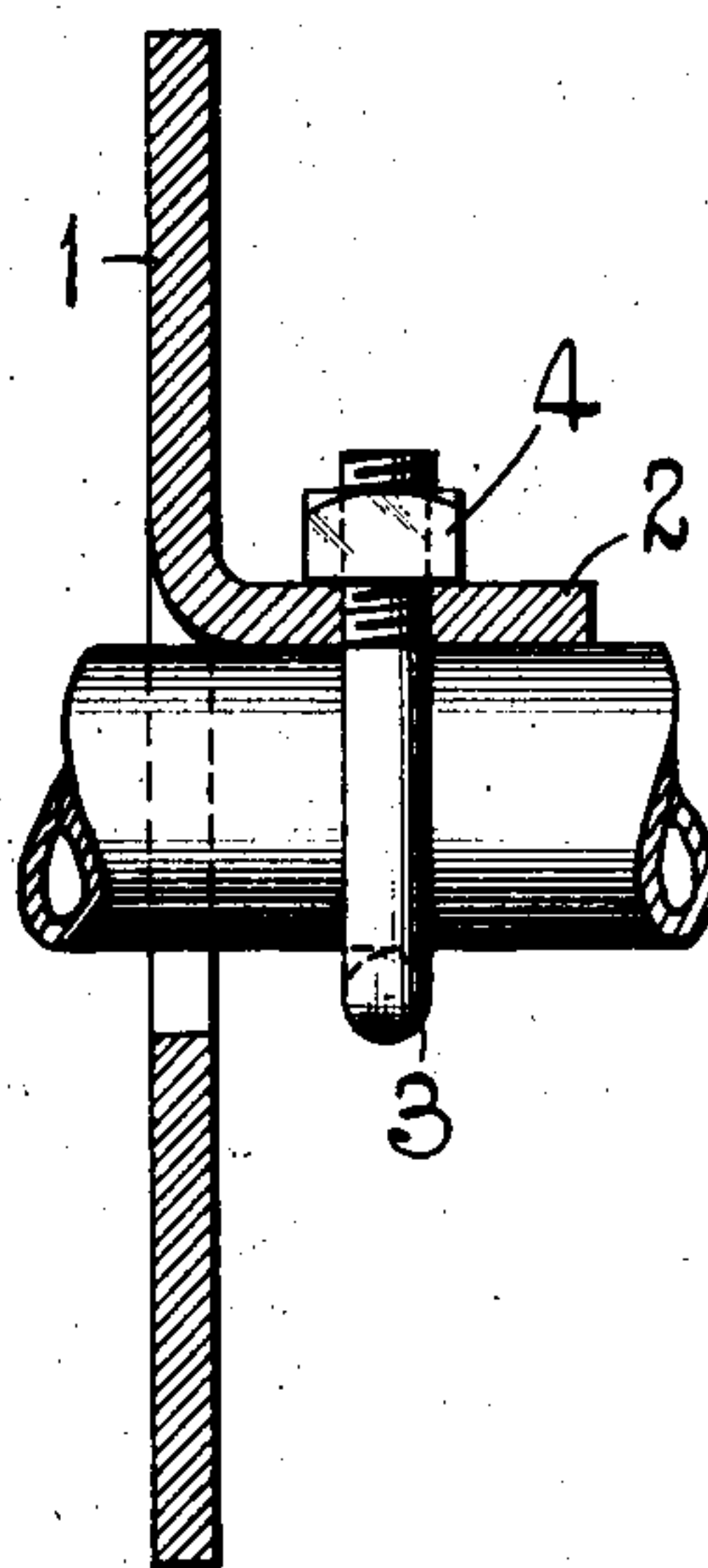


Fig.3.

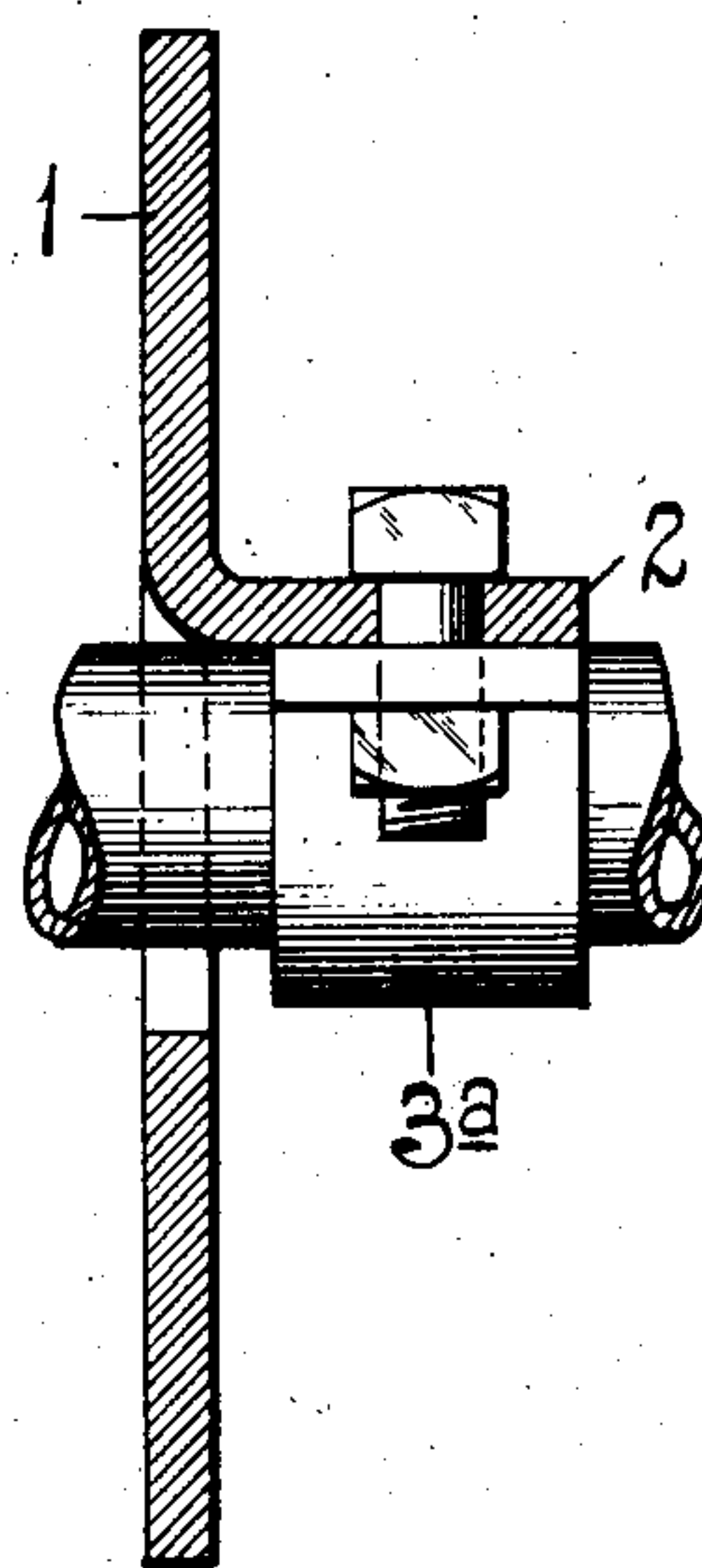


Fig.4.

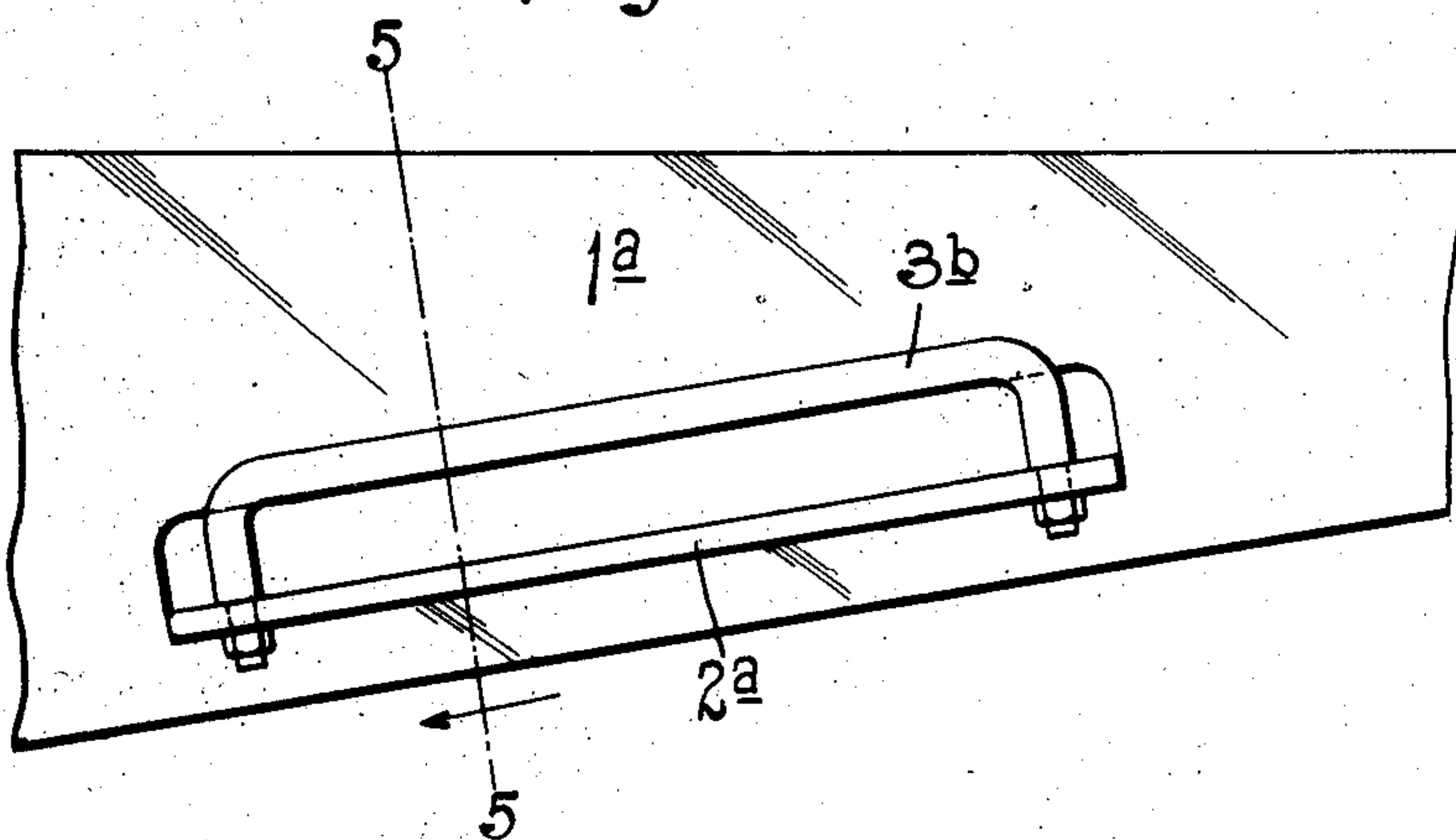
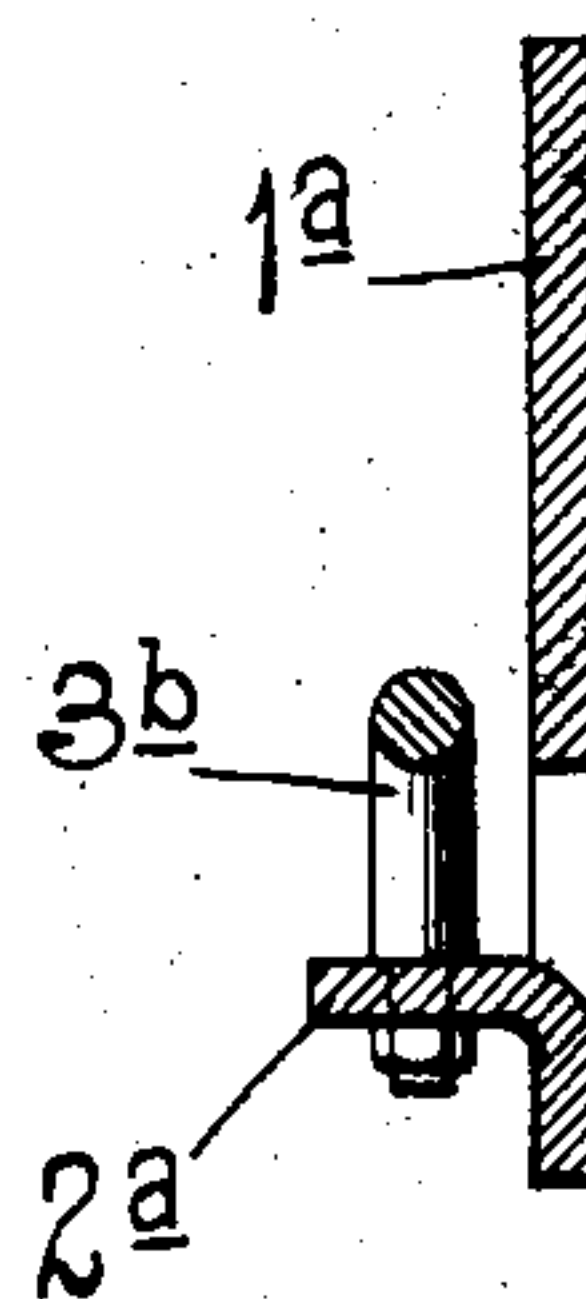


Fig.5.



Witnesses

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UNITED STATES PATENT OFFICE.

CLEMENT G. HARRINGTON, OF MAPLEWOOD, MISSOURI, ASSIGNOR TO
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SHAFT-HANGER.

No. 833,963.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed January 8, 1906. Serial No. 295,156.

To all whom it may concern:

Be it known that I, CLEMENT G. HARRINGTON, a citizen of the United States, residing at Maplewood, Missouri, have invented a certain new and useful Improvement in Shaft-Hangers, of which the following is a full, clear, and exact description, 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, forming part of this specification, in which—

Figure 1 is a side elevational view of my improved shaft-hanger. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a vertical sectional view showing a modified form. Fig. 4 is a side elevational view of a modified form, and Fig. 5 is a vertical sectional view on the line 5 5 of Fig. 4.

This invention relates to a new and useful improvement in shaft or pipe hangers of that character wherein the shaft or pipe passes through a metal plate, such as a web or diaphragm, in steel-car construction.

The purpose of the invention is to utilize the metal tongue produced in forming the opening for the passage of the pipe or shaft as a support for the confining member or bearing.

With this object in view the invention consists in the construction, arrangement, and combination of the several parts, all as will be hereinafter described, and afterward pointed out in the claims.

In the drawings, 1 indicates the web or diaphragm, which in car construction is usually a steel plate. The opening for the pipe or shaft is produced by forming an opening and bending the tongue 2 thereof at an angle to the main body of the plate, the opening being usually of a size slightly exceeding the diameter of the shaft or pipe to be passed therethrough. To this bent tongue 2 is secured a stirrup member in the form of a staple-like rod 3, whose ends are threaded and secured in position by nuts 4, of said bearing may be in the form of a U-shaped strap 3^a, having lateral flanges which are bolted or otherwise secured to the tongue 2, as shown in Fig. 3. If the shaft or pipe mounted in the bearing is to rotate, it is obvious that the

U-shaped member is not clamped tightly thereagainst, sufficient play being allowed for rotation.

In Figs. 4 and 5 I have shown an elongated inclined opening formed in the web 1^a, the tongue 2^a thereof constituting a shelf and being arranged at the lower edge of the opening. An elongated staple 3^b is secured to this tongue. This construction is useful in connection with rolling shafts constituting part of a door-operating mechanism in gondola cars.

While I have shown my invention as employed in connection with a metal plate, such as a web or diaphragm, in steel-car construction, it is obvious that in instances where cast-steel or malleable-iron members are used a lug could be cast integral with the side of the opening to serve as a support for the U bolt or strap. In instances where the part is a commercial rolled shape, such as a channel or angle, the web or leg could be formed with a tongue, and one or more J-bolts might be used instead of the U bolt or strap, especially where it was desired to reduce the size of the opening.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a mount for shafts, pipes and the like, the combination of a plate having an opening formed therein through which the shaft or similar device extends, the metal removed from the opening being bent outwardly to form a tongue, and an open bearing member mounted on said tongue for embracing the device which is to be supported; substantially as described.

2. In a mount for shafts, pipes, and the like, the combination of a plate having an opening formed therein through which the shaft or similar device extends, the metal removed from the opening being bent outwardly to form a tongue which is arranged above the device extending through said opening, and an open bearing depending from said tongue to support said device; substantially as described.

3. The combination with a plate 1 provided with an opening, and a tongue 2 extend-

ing at right angles to said plate and formed by the metal which is removed from the plate to form the opening therein, of a U-shaped bearing member having securing devices at the ends thereof passing through said tongue 2; substantially as described.

In testimony whereof I hereunto affix my

signature, in the presence of two witnesses, this 30th day of December, 1905.

CLEMENT G. HARRINGTON.

Witnesses:

F. R. CORNWALL,

GEORGE BAKEWELL.