C. E. JONES.

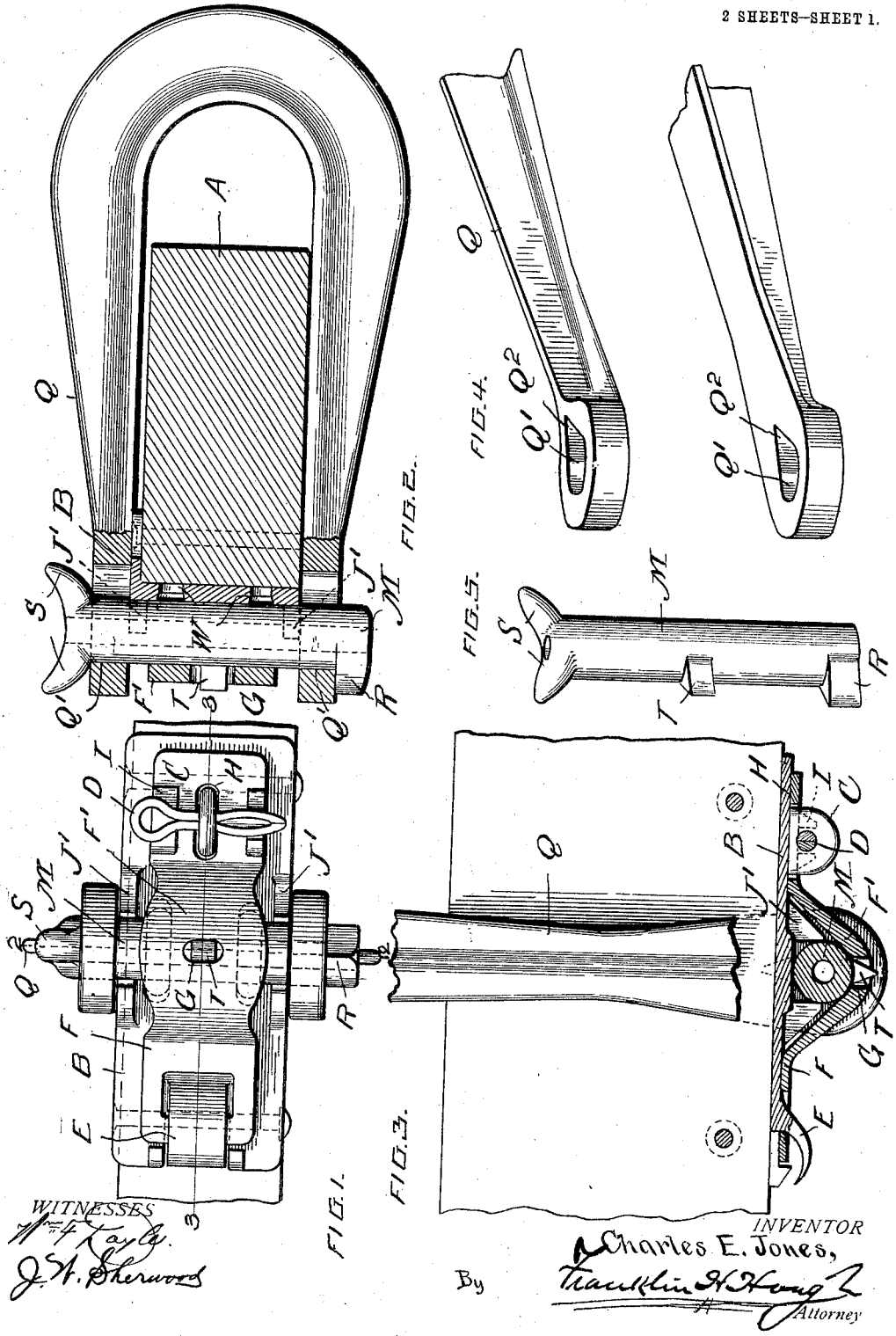
CENTER BEARING FOR DOUBLETREES.

APPLICATION FILED APR. 7, 1913.

1,067,740.

Patented July 15, 1913.

2 SHEETS—SHEET 1.



WITNESSES

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2 SHEETS—SHEET 2.

FIG. 6.

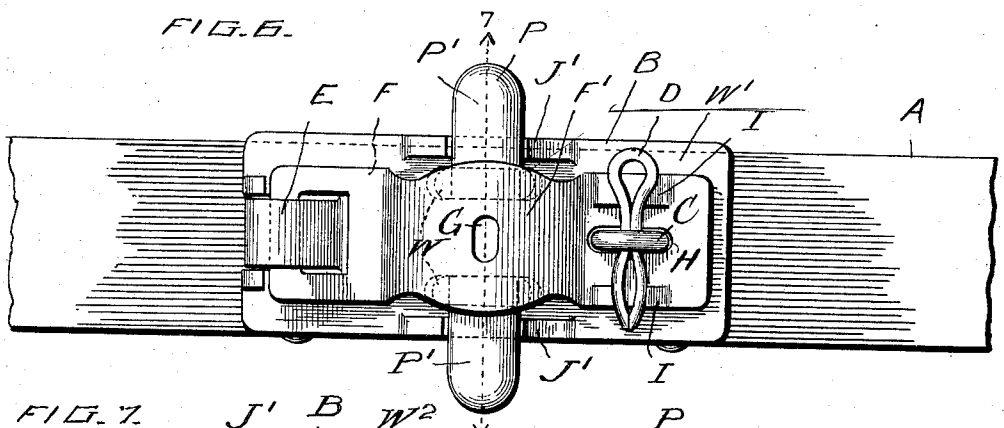


FIG. 7.

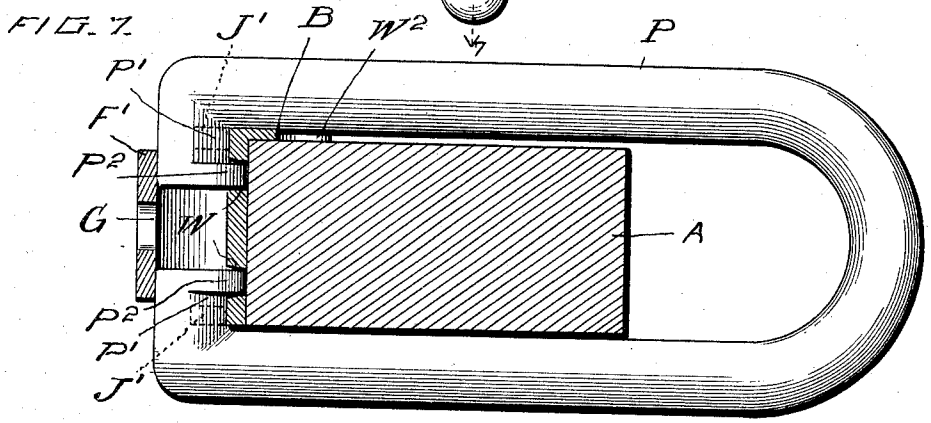
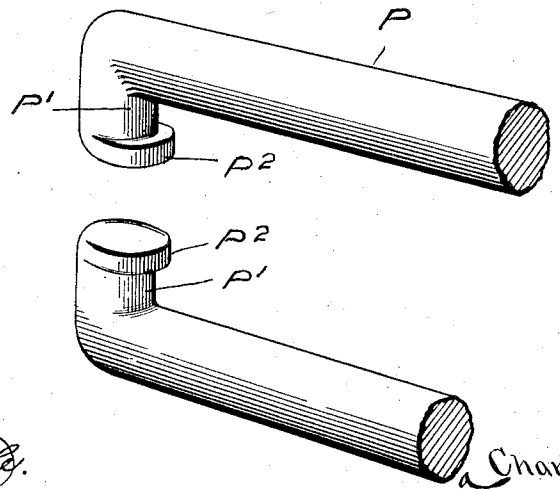


FIG. 8.



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UNITED STATES PATENT OFFICE.

CHARLES ELIOTT JONES, OF THREE OAKS, MICHIGAN.

CENTER BEARING FOR DOUBLETREES.

1,067,740. Specification of Letters Patent. Patented July 15, 1913.

Application filed April 7, 1913. Serial No. 759,506.

To all whom it may concern:

Be it known that I, CHARLES E. JONES, a citizen of the United States, residing at Three Oaks, in the county of Berrien and State of Michigan, have invented certain new and useful Improvements in Center Bearings for Doubletrees; 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 and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in clevises and center bearings for doubletrees and the object in view is to produce a simple and efficient device of this nature which may be applied to the doubletree without the necessity of boring holes through the same for the reception of pins to which the clevis is attached and as is commonly the practice and which necessarily weakens the doubletree.

The invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawing and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is an edge view of a doubletree showing the application of my clevis and bearing thereto. Fig. 2 is a sectional view on line 2—2 of Fig. 1. Fig. 3 is a sectional view on line 3—3 of Fig. 1. Fig. 4 is a detail perspective of one end of the clevis. Fig. 5 is a perspective view of the clevis pin. Fig. 6 is an edge view of a modified form of clevis in which the clevis pin is dispensed with. Fig. 7 is a sectional view on line 7—7 of Fig. 6, and Fig. 8 is a detail perspective view of one end of the modified form of clevis.

Reference now being had to the details of the drawings by letter, A designates a doubletree and B is a casting which is fastened over one edge of the doubletree and is provided with a lug C which is apertured for the reception of a cotter pin D. A second and inclined projection E projects from said plate and forms a hinged hook adapted to have hinged connection with the member F, which latter is bowed as at F′ and centrally apertured as at G. The free swinging end of said member F is provided with a slot H for the reception of said lug and the outer face of the member is provided with ribs I adapted to engage the cotter pin D which is adapted to be passed through the aperture in said lug after the plate is in the position shown in Fig. 1 of the drawings. Said plate is provided with laterally projecting lugs J′ which have concaved recesses therein forming bearings for the hollow clevis pin M, made preferably of malleable metal and which in turn forms bearings for the clevis Q, the ends of which are apertured as at Q′ and each aperture is provided with an offset Q^2 adapted to receive the lug R formed at one end of the clevis pin and also a lug T which projects from the circumference of said pin midway its length and which engages the aperture or slot formed in the bowed portion of said member. One end of the clevis pin has wings, S, forming means whereby the pin may be rotated when it is desired to bring the projections thereon in registration with the offsets in the apertures in the ends of the clevis whereby the pin may be removed after said member is swung back in order to allow the pin to rock. By the provision of a cored pin, they will anneal properly, the material becoming more soft, tough and strong and will stand greater pulling without bending or breaking under severe strain than would be the case if the pin were solid. By the making of a cored pin, the laterally projecting lugs thereon will become thoroughly annealed and add to the strength of the same.

In Fig. 6 of the drawings, I have shown a slight modification of my invention in which a clevis, designated by letter P, is provided with right angled ends P′, terminating in eccentric flanges P^2, said right angled projections being adapted to engage the bearings in said plate while the flanges have a swinging movement within the slots W formed in the plate W′ which is fastened to the edge of the doubletree by bolts or other fastening devices passing through registering apertures in the lugs W^2 upon the opposite edges of the plate. When the modified form of clevis is used, the clevis pin is dispensed with, said modified form of clevis being held in place by the arched hinged member and held from spreading by means of said eccentric flanges or cams en-

gaging the slots in the plate when under direct pull upon the clevis.

By the provision of a bearing and clevis for doubletrees made in accordance with my invention, it will be noted that the strength of the doubletree is not impaired by the boring of holes for fastening the clevis in the usual manner and the clevis is easily and quickly detached from the plate by first swinging the arched hinged member back to disengage the lug upon the clevis pin, after which the latter may be rocked in order to bring the projections thereof in registration with the offsets in the ends of the clevis, thus allowing the pin to be withdrawn.

What I claim to be new is:—

1. A central bearing and clevis for doubletrees consisting of a plate adapted to be fastened to one edge of the doubletree, a clevis, and a hinged member fastened to said plate and adapted to hold the clevis in contact with said plate, as set forth.

2. A central bearing and clevis for doubletrees consisting of a plate having projections which are concaved forming bearings, a clevis pin mounted in said bearings, a clevis having apertured ends journaled upon said pin, a hinged member mounted upon said plate, means for holding the swinging end of said member locked, and means for preventing the pin from rotation, as set forth.

3. A central bearing and clevis for doubletrees consisting of a plate having projections which are concaved forming bearings, a clevis pin mounted in said bearings and provided with lateral projections, a clevis having apertured ends journaled upon said pin, a member hinged to said plate and provided with an aperture for the reception of one of said projections upon the pin to hold the latter from rotation, as set forth.

4. A central bearing and clevis for doubletrees consisting of a plate having projections which are concaved forming bearings, a clevis pin mounted in said bearings and provided with lateral projections, a clevis having apertured ends journaled upon said pin, a member hinged to said plate and provided with an aperture for the reception of one of said projections upon the pin to hold the latter from rotation, said clevis having offsets in the apertures to allow said projections to pass through the apertures, and means for holding the free swinging end of said member locked, as set forth.

5. A central bearing and clevis for doubletrees consisting of a plate having projections which are concaved forming bearings, a clevis pin mounted in said bearings and provided with lateral projections, a clevis having apertured ends journaled upon said pin, a member hinged to said plate and provided with an aperture for the reception of one of said projections upon the pin to hold the latter from rotation, said clevis having offsets in the apertures to allow said projections to pass through the apertures, an apertured lug upon said plate, a slot in the member for the reception of said lug, and a key passing through said aperture to hold the member, locked, as set forth.

6. A central bearing and clevis for doubletrees consisting of a plate adapted to be fastened to one edge of the double-tree, a hollow clevis pin mounted in suitable bearings upon the plate, a hinged member mounted upon the latter, means for holding the swinging end of said member locked, and means for preventing the pin from rotation, as set forth.

In testimony whereof I have hereunto affixed my signature in the presence of two witnesses.

CHARLES ELIOTT JONES.

Witnesses:
BENJ. SAWIN,
GRAYCE SAWIN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."