F. LURSEN, JR.

SHAFT SUPPORT.

APPLICATION FILED NOV. 30, 1910.

999,383.

Patented Aug. 1, 1911.

2 SHEETS—SHEET 1.

FIG. 1.

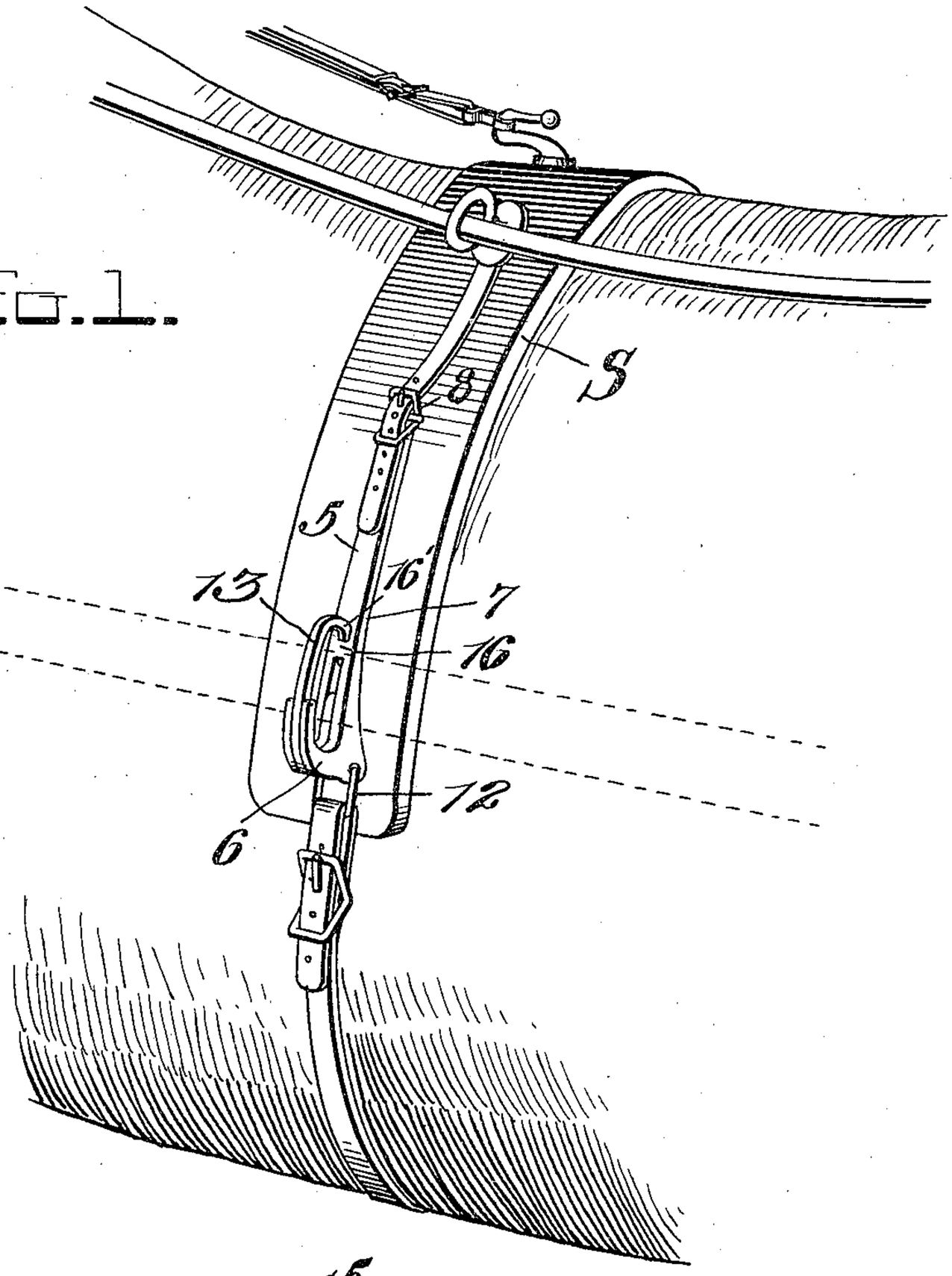
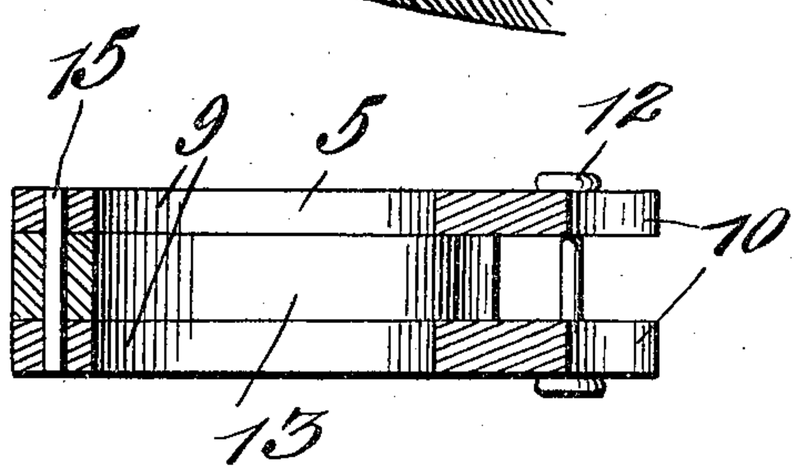


FIG. 3.



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2 SHEETS—SHEET 2.

FIG. 2.

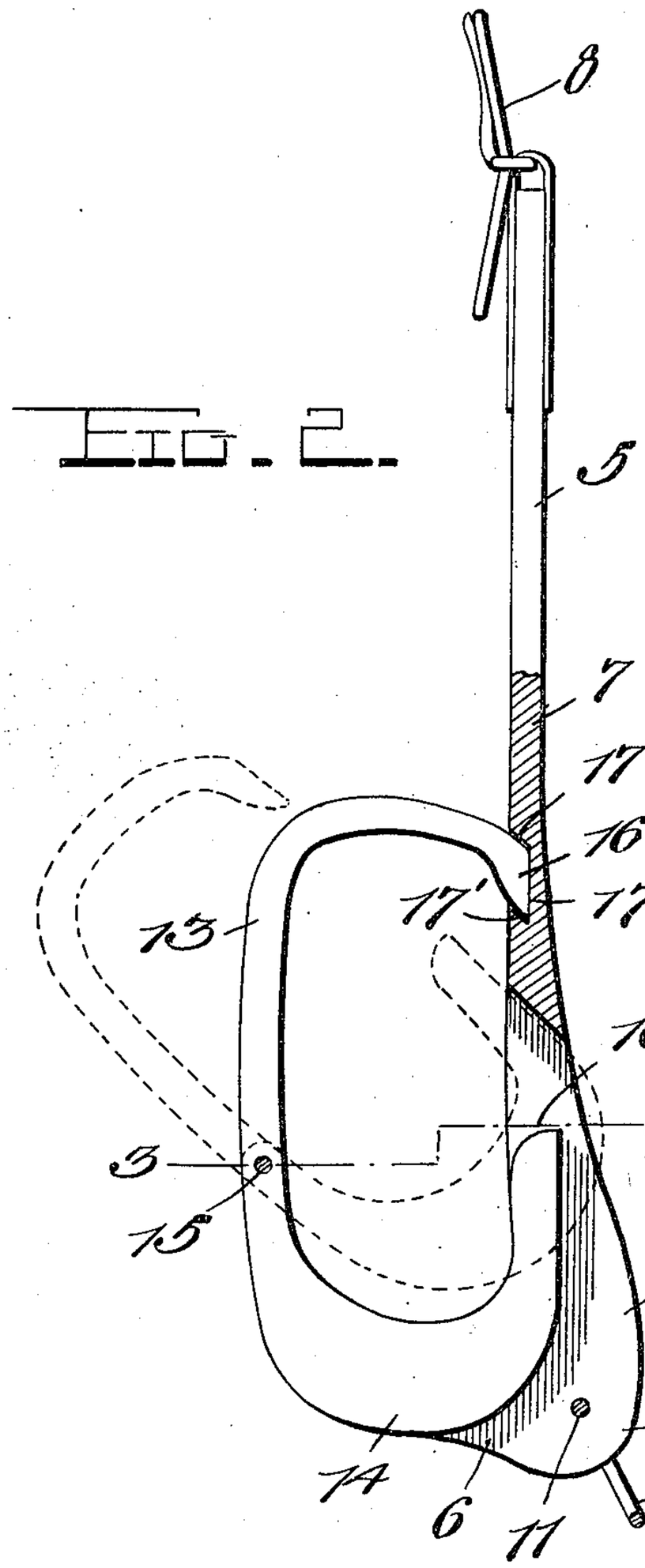
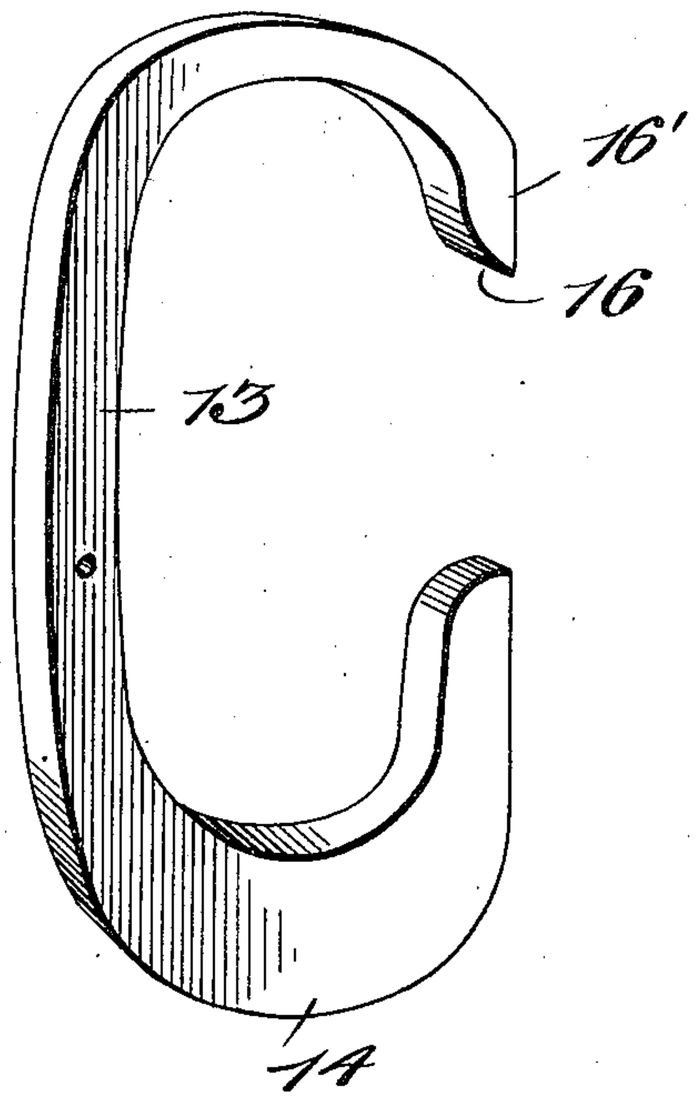


FIG. 4.



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SHAFT-SUPPORT.

999,383. Specification of Letters Patent. **Patented Aug. 1, 1911.**

Application filed November 30, 1910. Serial No. 595,007.

To all whom it may concern:

Be it known that I, FRED LURSEN, Jr., a citizen of the United States, residing at Menno, in the county of Hutchinson and State of South Dakota, have invented certain new and useful Improvements in Shaft-Supports, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in shaft tugs or supports for harness and has for one of its objects to provide a simple and very efficient device which may be easily and quickly applied to or removed from the harness and in which the shaft may be easily and quickly arranged.

A further object of my invention resides in the provision of means for locking the shaft in position through its own weight, the support comprising but two primary elements which are of simple form and may be constructed at a nominal expense.

With the above and other objects in view, the invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the device illustrating the manner in which the same is adapted to be applied in practical use; Fig. 2 is an enlarged detail vertical section; Fig. 3 is a section taken on the line 3—3 of Fig. 2; and Fig. 4 is a detail perspective view of the pivoted shaft holding member.

Referring in detail to the drawings 5 designates the body of my improved shaft support which is constructed from a single piece of metal and is substantially in the form of the letter J, the lower end being hook-shaped as shown at 6. The remainder of the body member is formed into a flat bar 7 upon the end of which a buckle 8 is secured to which an attaching strap carried by the saddle S is adapted to be connected. The lower hook-shaped end of the body member is bifurcated as shown at 9, and this hook-shaped portion is formed upon one side with the lugs 10 in which a pintle 11 is secured. To the ends of this pintle the ends of a U-shaped loop 12 are secured, and through this loop the belly-band strap is adapted to pass. In this manner the upper and lower ends of the support are securely held in position between the saddle and the belly-band thus properly positioning the device to receive the shafts.

In the bifurcated end of the body member the shaft holding element 13 is disposed. This element is in the form of a C-shaped link and at one of its ends is of increased width as indicated at 14 to provide greater strength at this point upon which the shaft rests. A pivot pin 15 extends through one of the longitudinal portions of the shaft supporting element and through the extremities of the upturned end of the hook 6. The other longitudinal portion of the link is open as shown at 16 and through this opening the shaft is adapted to be inserted when the link is disposed in the position indicated in dotted lines in Fig. 2. When in its operative position, the inner edge of the lower widened portion of the shaft supporting element is flush with the upper curved edge of the hook-shaped portion of the body member so as to provide a perfectly smooth supporting surface for the shaft. The end 16′ of the shaft supporting element which is provided by forming the opening therein to receive the shaft is adapted for engagement in a recess 17 which is provided in the face of the shank portion of the body member 5. The end walls of this recess are inclined as shown at 17′ so as to permit of the free movement of the end of the supporting link into or out of the same.

From the above description taken in connection with the accompanying drawings, it is thought that the construction, manner of application and the operation of the invention will be apparent.

By simply moving the element 13 to the position indicated in dotted lines in Fig. 2 the shaft may be readily positioned in the lower end thereof and upon the return of said element to its normal position, the shaft is securely locked therein. The upward movement of the shaft will not release the same from the support but both upward and outward pressure by the shaft on the element 13 is necessary in order to move said element to its releasing position. Therefore it will be noted that while the shaft is securely held in the supports at all times, it may, nevertheless, be easily and quickly removed without requiring the entire disconnection of the support from the harness.

Owing to the fact that the device is constructed of but two main elements, it will be obvious that the same may be manufactured

at an extremely low cost and that it is also highly durable in practical use.

While I have shown and described the preferred form and construction of the device, it will be obvious that the same may be variously modified without departing from the essential feature or sacrificing any of the advantages thereof.

Having thus described the invention what is claimed is:—

The herein described shaft support comprising a hook-shaped body member, the hooked portion thereof being bifurcated, an open link of substantially C-shaped form pivotally mounted in the extremity of the hook portion of the body member, the end wall of the bifurcation of said body member being outwardly and upwardly inclined, one end of said link being normally disposed in said bifurcation and adapted to engage with said inclined wall to limit the outward movement of said link and position the same so as to facilitate the withdrawal of the shaft from the support, the lower end of said link below its pivotal point being of substantially semi-circular form and adapted to engage around the lower portion of the shaft and upon both sides thereof, said body member having a recess above the bifurcation thereof to receive the upper extremity of said link when in its normal position to prevent lateral strain upon the link above its pivotal point.

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

FRED LURSEN, Jr.

Witnesses:
W. B. Stark,
W. S. Brant.