

A. LITTMAN & W. J. LACKIE.
SHAFT TUG ATTACHMENT.
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941,326.

Patented Nov. 23, 1909.

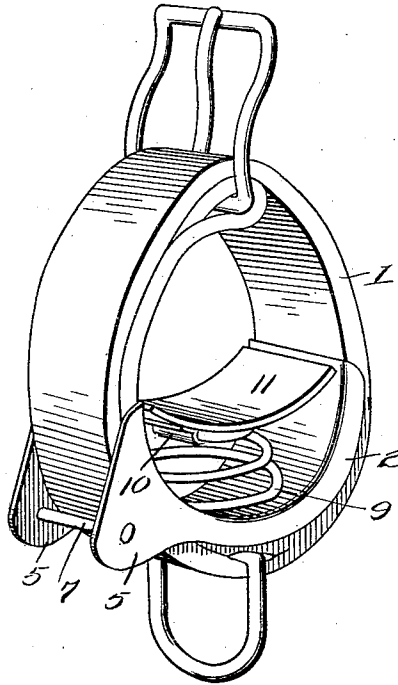


Fig. 1.

Fig. 2.

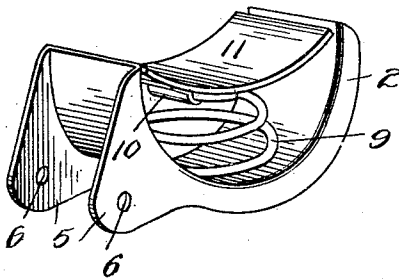
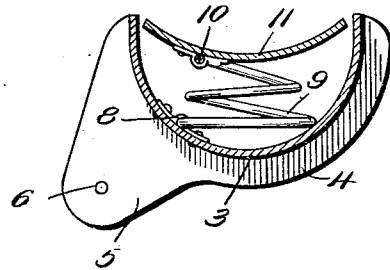


Fig. 3.



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SHAFT-TUG ATTACHMENT.

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To all whom it may concern:

Be it known that we, ALBERT LITTMAN and WILLIAM J. LACKIE, citizens of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Shaft-Tug Attachments, of which the following is a specification.

This invention relates to improvements in shaft tugs, and the object of the invention is to provide a shaft tug of the ordinary construction with a resilient bearing member adapted to engage the under face of the shaft and to sustain the same flexible upon the tug, so as to compensate for the weight applied to the shaft when the driver of the vehicle rests thereon, when alighting from the vehicle or when the vehicle is in motion.

With the above, and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and combination of elements hereinafter fully described and claimed.

In the accompanying drawing there has been illustrated a simple and preferred embodiment of the invention, and in which,

Figure 1 is a perspective view of an ordinary harness tug with our improvement applied thereto. Fig. 2 is a perspective view of the improvement detached from the tug. Fig. 3 is a central longitudinal sectional view through the attachment.

In the accompanying drawings the numeral 1 designates a shaft or harness tug of the ordinary construction. This shaft 1 is provided with the usual buckle ring whereby it is secured to the remainder of the harness, which in this case it has not been deemed necessary to illustrate.

With the ordinary construction of tugs, the shafts of the vehicle rest directly upon the bottom face thereof and it will be noted that a sudden jolt upon the shaft will have a tendency to force the tug downward, thus drawing tightly upon the straps connecting the tug with the remainder of the harness and thereby chafing the animal to which the harness is applied. In order to overcome

this and to provide a resilient bearing for the shaft we have provided the tug 1 with an improved attachment 2. The attachment 2, is removably connected with the tug 1, and comprises a body plate 3 of a curved formation to correspond with the curved lower face of the tug 1. This curved portion 3 has its ends bent downwardly as designated by the numeral 4, and one portion of these offset bent portions 4 is enlarged to provide ears 5 having suitable alining perforations 6 which are adapted for the reception of a removable securing member 7. The body member 3 is provided upon its inner face, adjacent its central portion with a suitable eye 8 which is adapted for engagement with one of the end convolutions of a helical spring 9, while the opposite end convolution of the said spring 9 is engaged within a similar eye 10 connected with an arcuate bearing plate 11.

By reference to the several figures of the drawing it will be noted that the plate 11 is of a substantially rectangular formation being provided with a curved bearing face, and it is to be also understood that the resilient member 9 is adapted to exert pressure between the body 3 and the said plate 11, so as to normally force the plate away from the said body. By this arrangement it will be noted that the shaft is afforded a flexible bearing upon the plate 11, and it will be also noted that by hinging the spring member 9 to the plate 11, the said plate is free to rotate within the body 3, thus readily adjusting itself to the various shapes of the shafts.

From the above description, taken in connection with the accompanying drawing, it will be noted that we have provided an extremely simple and effective device for the purpose intended, one which may be easily and quickly applied to any ordinary tug and one which may be readily detached therefrom when desired, and while we have illustrated and described the preferred embodiment of the improvement, as it now appears to us, it is to be understood that minor de-

tails within the scope of the following claim, may be resorted to if desired.

Having thus described the invention what is claimed as new is:—

- 5 An attachment for shaft tugs comprising a body member of a curved formation having its longitudinal edges offset and provided with ears, a securing element for the ears, a bearing plate for the body, and a re-

silient connection between the bearing plate 10 and the body.

In testimony whereof we affix our signatures in presence of two witnesses.

ALBERT LITTMAN.

WILLIAM J. LACKIE.

Witnesses:

LOUIS CHESTLER,
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