O. R. AUBREY.

ADJUSTABLE LOGGING SLING.

APPLICATION FILED SEPT. 15, 1916.

1,225,100. Patented May 8, 1917.

Fig. 1.

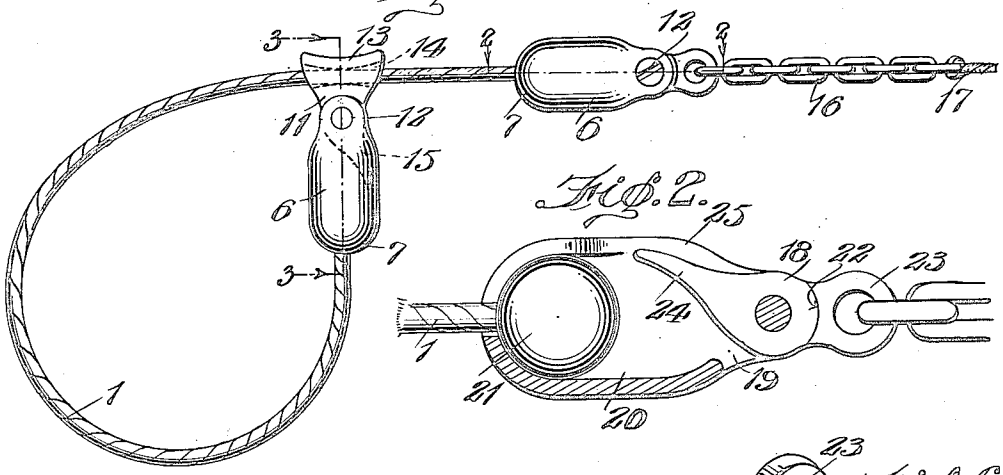


Fig. 2.

Fig. 6.

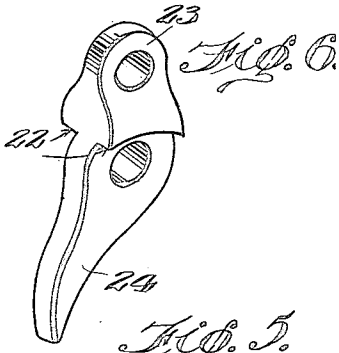


Fig. 3.

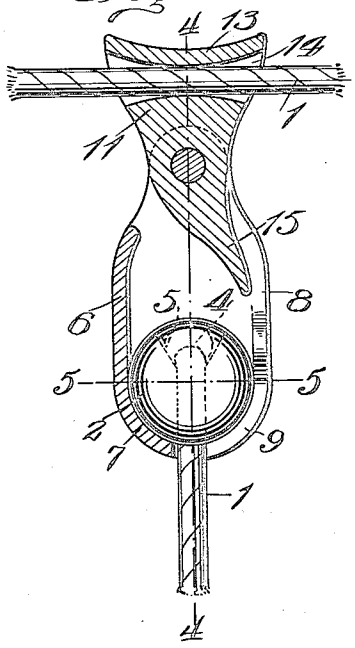


Fig. 4.

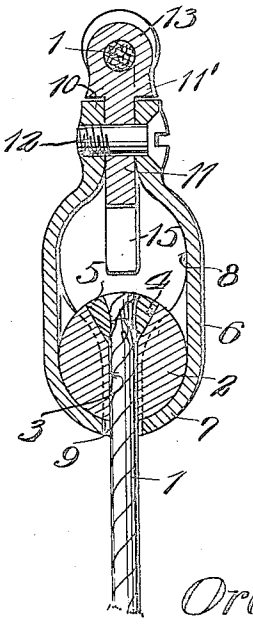
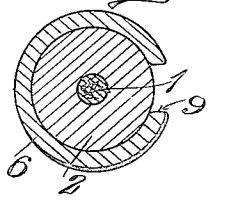


Fig. 5.



Orley R. Aubrey
Inventor

By Geo. P. Kimmel
Attorney

UNITED STATES PATENT OFFICE.

ORLEY R. AUBREY, OF HOLBROOK, OREGON.

ADJUSTABLE LOGGING-SLING.

1,225,100. Specification of Letters Patent. Patented May 8, 1917.

Application filed September 15, 1916. Serial No. 120,323.

To all whom it may concern:

Be it known that I, ORLEY R. AUBREY, a citizen of the United States, and resident of Holbrook, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Adjustable Logging-Slings, of which the following is a specification.

The present invention has reference generally, to improvements in logging devices, and, relates more particularly to a novel adjustable sling, especially adapted for use when hauling logs.

In logging sections, it is the custom to drag a log after it has been properly cut, to either a loading point or else direct to a mill. Heretofore devices have been provided for facilitating this work but apparently they have not been commercially successful. It is the primary aim and object of this invention therefore, to provide novel means for adjusting a sling about a log and to also provide novel means for attaching the sling to the usual hauling rope so as to effectively assist a lumberman in hauling logs.

The invention has for an additional object to provide novel means for universally connecting the engaging means, which is adjustable on the cable, and the attaching means, that serves to connect the sling to a hauling rope, to the respective ends of the sling and thereby increase the effectiveness of the device in operation.

More particularly, the present invention embraces the provision of a member pivoted to one of the casings and adjustable on the cable to vary the size of the sling and also arranged to retain one of the balls in the casing; and a member pivoted in the other casing adapted to be attached to a hauling rope as well as to retain the other ball in the casing during the operation of the device.

Among the other aims and objects of the invention may be recited the provision of a device of the character mentioned with a view to compactness, the number of parts of which are few, the construction simple, the cost of production low, and the efficiency high.

Other improvements and novel details in the construction and arrangement of the various parts of the device will be brought out more in detail in the description to follow, which, for a clear understanding of the invention, should be considered in connection with the accompanying drawings, forming a part hereof, and wherein is disclosed, for the purpose of illustration, a convenient and satisfactory embodiment of the invention. It is to be noted, in this connection, that minor changes in the construction and arrangement of the parts may be made without departing from the spirit of the invention, or the principle of operation of the various parts.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of my invention.

Fig. 2 is an enlarged longitudinal section taken on line 2—2 of Fig. 1.

Fig. 3 is an enlarged longitudinal section taken on line 3—3 of Fig. 1.

Fig. 4 is a section taken on line 4—4 of Fig. 3.

Fig. 5 is a transverse section taken on line 5—5 of Fig. 3.

Fig. 6 is a perspective detail.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now, more particularly, to the accompanying drawings, I provide a sling or choker which consists, preferably of a cable 1, on one end of which is connected a ball 2, the latter being provided with a transverse opening 3, for receiving the cable, the free terminal of which is anchored in the enlarged end 4 of the opening by means of lead 5 or the like. A casing 6, which may be and preferably is constructed of metal, and of a cylindrical configuration, has one end closed and rounded as indicated by the numeral 7; to constitute a socket for removably receiving the ball 2 insertible in an opening 8, in one side of the casing, as well as the cable 1, arranged through a slot 9, which communicates with the opening 8 and terminates at the central portion of the rounded end 7. Spaced parallel ears 10, extend longitudinally from the opposite end of the casing.

Now, in order that the sling will adjust itself about a log, I provide a member 11, which is pivoted intermediate its ends between the spaced ears 10, by suitable means such as a screw 12, and provided with shoulders 11′. The outer end of the member 11 terminates in a sleeve portion 13, the respective ends of which are flared outwardly as

indicated by the numeral 14, so as to facilitate adjustment of the sleeve on the main portion of the cable 1. The opposite end of the member terminates in a lug 15 which is arranged within the opening 8, so as to retain the ball 2 within the casing and prevent accidental displacement thereof during operation.

For the purpose of attaching the cable to a butt or other chain 16, which is in turn connected to a hauling cable 17, I provide a member 18, and pivot it intermediate its ends between spaced ears 19, formed on one end of a casing 20. This casing is similar in construction to the casing 6 and removably receives a ball 21, constructed similarly to the ball 2, being anchored on the opposite end of the cable 1, so as to universally connect the casing to the cable. One end of the member 18, is enlarged to provide oppositely arranged shoulders 22, which ride upon the ears 19, and serve to prevent underbrush, cross lines, etc., from interfering with the pivoted movement of the member 18. An ear 23, is formed on the outer end of the enlarged portion of the member 18, and is engaged by one of the links of the chain 16. The inner end of the member 18 terminates in a lug 24, which is arranged in the rounded opening 25 in the casing 20 for removably retaining the ball 21 in the socket in the casing 20.

The operation of the invention may be reviewed as follows:—

Assuming that it is desired to haul a log after it has been properly cut, the cable 1, is arranged about the log and as one end of the cable is attached to the hauling rope when the latter is pulled the main portion of the cable 1, will slide through the sleeve portion 13 of the member 11, until the looped portion of the cable 1 is effectively engaged about the log. As is apparent the sling or choker which includes the cable, as well as the engaging and attaching member, is practically self-adjustable. Incidentally, because of the ball and socket construction, the parts work freely and do not stick under a hard strain, as is the case of the spliced eye now in general use.

As many changes could be made in the above construction and many apparently widely different embodiments of this invention could be made without departing from the scope thereof, and it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense. It is also to be understood that the language used in the following claims is intended to cover all of the generic and specific features of the invention herein described and all statements of the scope of the invention, which as a matter of language might be said to fall therebetween.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A device of the character described including a cable, balls anchored on the respective ends of the cable, casings for removably receiving the balls to permit of universal movement, a member pivoted to one casing for retaining the ball against accidental displacement and for slidable association with the main portion of the cable, and a member pivoted in the other casing for retaining the ball against accidental displacement and for attaching the device to a suitable hauling means.

2. A device of the character described including a cable, balls anchored on the respective ends of the cable, casings for removably receiving the balls to permit of universal movement, said casings being of substantial cylindrical configuration having one end thereof closed, ears formed on the other end of one of said cylindrical casings, a member pivoted to one casing between the said ears, said member being provided with oppositely arranged shoulders in alinement with the outer edge of the said ears preventing objects from interfering with the pivoted movement of said member, the inner end of said member having a lug formed thereon providing means for removably retaining the said ball in the casing.

In testimony whereof, I affix my signature hereto.

ORLEY R. AUBREY.