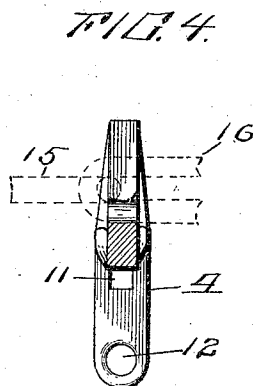
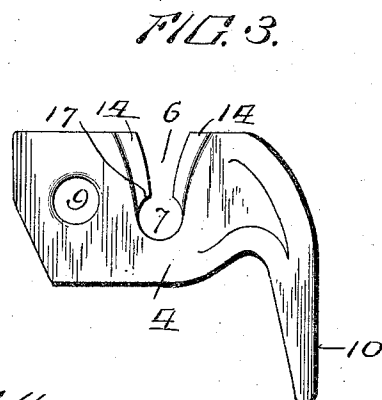
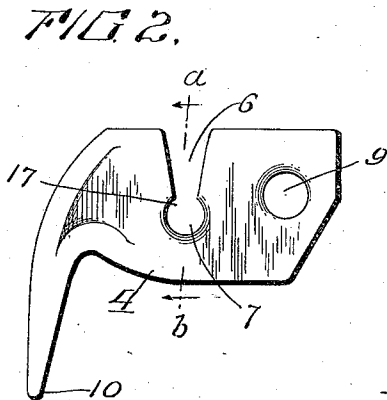
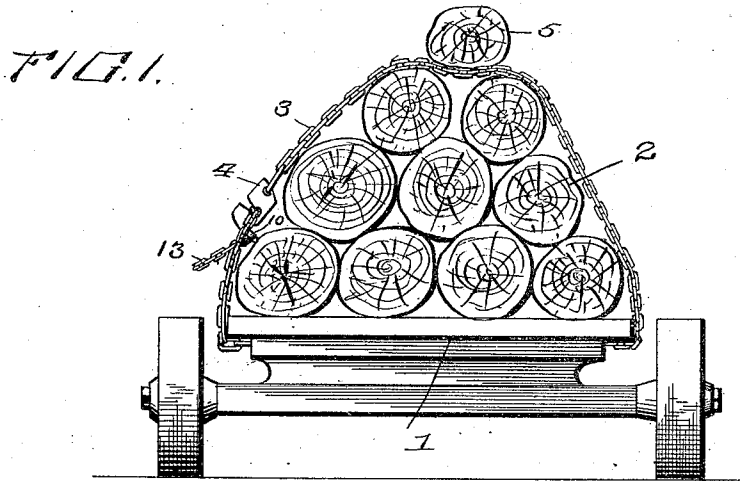


T. GIBSON.
CHAIN SHACKLE.
APPLICATION FILED NOV. 11, 1912.

1,066,202.

Patented July 1, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

THOMAS GIBSON, OF PALMER, WEST VIRGINIA.

CHAIN-SHACKLE.

1,066,202.

Specification of Letters Patent.

Patented July 1, 1913.

Application filed November 11, 1912. Serial No. 730,625.

To all whom it may concern:

Be it known that I, THOMAS GIBSON, a citizen of the United States, residing at Palmer, in the county of Braxton and State of West Virginia, have invented certain new and useful Improvements in Chain-Shackles; 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.

My invention relates to certain new and useful improvements in chain shackles more especially designed for use in log-hauling.

In log-hauling it is customary to employ a chain to bind the piled logs upon the wagon and to then place additional logs upon those bound by the chain, in order that the weight of the added logs will serve to tighten the chain. When it is desired to unload the logs it becomes necessary to release the chain and it becomes difficult to do so after the chain has been tightened as described.

My invention has for its object to provide a shackle which while it will hold the chain in its tightened condition may be operated readily to release the same when desired.

With these ends in view my invention consists in the construction hereinafter more fully set forth.

In order that those skilled in the art to which my invention appertains may know how to make and use my improved shackle and fully appreciate its advantages I will proceed to describe the same referring by numerals to the accompanying drawing in which—

Figure 1, is a front view showing a series of logs secured in loaded condition by a chain and one of my improved shackles. Fig. 2 is a side elevation of my improved chain shackle. Fig. 3 is a similar view showing the side opposite to that shown in Fig. 2 and Fig. 4 is a vertical section on the line *a-b* of Fig. 2 looking in the direction of the arrows, and showing in broken lines the location of the chain within the shackle.

Similar reference numerals indicate like parts in the several figures of the drawing.

1, represents the body of an ordinary wagon and 2, a series of logs secured thereon by a chain, 3, fastened in position by one of my shackles 4, the chain having been tightened in the usual manner by surmounting log or logs 5.

The shackles consist of wrought or malleable cast iron formed with a substantially central V-shaped vertical channel 6, terminating in a circular or other suitably shaped transverse recess 7, or channel of such cross-sectional area as to receive in vertical position one of the links of an ordinary logging chain. This shackle is provided with a hole 9, to receive a suitable connecting hook or ring on one end of the logging chain 3. The free end of the shackle is extended into arm 10, with channel 11, formed therein and adapted to receive any suitable bar or lever device for releasing the chain from the shackle as will be hereinafter explained. It is also provided with another channel 12, by means of which, and a suitable connecting short chain 13, it may be attached to the logging chain to prevent its loss or displacement. The V-shaped channel or slot 6 is transversely beveled or curved as shown at 14 to properly seat the end of the chain link 15 adjacent to the link 16.

When the logs are loaded upon the wagon in the usual manner and the chain 3 is passed under the body thereof and over the logs 2, the free end of the chain being drawn as tight as possible has one of its links 16, passed down, or into the V-shaped channel 6, and with one of its side bars seated within the recess or channel 7, as best shown in Figs. 1 and 4, and as is usually customary one or more logs 5 are piled upon the chain as shown in Fig. 1 and their weight operates to still further tighten the chain.

In the usual means for chaining the logs in place, the tightening of the chain renders it very difficult to release and loosen the chain when it is desired to unload the logs. With my improved shackle when the extra strain is exerted upon the chain it forces the side bar of the link within the V-shaped channel laterally into the transverse channel 7, when it is thus locked at the locality 17, against accidental release. When it becomes necessary to unload the logs, a bar or any other sort of lever is inserted in the slot or channel 11, and the tail 10 raised or lifted slightly upward, which movement supplements the strain upon the chain and causes the prompt release of the link 16, from its seat and enables it to move upward and out of the vertical V-shaped seat 6, whereupon all of the logs may be readily rolled off of the wagon.

The construction of my improved shackle is such that it can be readily and very economically manufactured, and being made of a single piece there is nothing to get out of adjustment or misplaced.

What I claim as new and desire to secure by Letters Patent is,

1. A shackle for use with logging chains consisting of a single piece of metal adapted at one terminus for attachment to one end of a chain, and formed with a vertical extension or tail at the other terminus, and having a V-shaped channel terminating at its lower extremity in a seat in cross-section corresponding to the side bar of a chain link, said V-shaped channel located intermediate the termini of the shackle and in its outer edge, substantially as shown and described.

2. In a chain shackle such as described, embodying means at one end for attachment to a log-chain and a vertical extension or tail at its opposite end, and formed with an in-

intermediate vertical V-shaped slot terminating at its lower extremity in a seat adapted to receive a side bar of a chain-link, there being a channel in the extension or tail adapted to receive a chain releasing bar or lever as hereinbefore set forth.

3. In a chain shackle such as described and formed with a V-shaped channel adapted to receive a chain link, the walls of said slot beveled or curved transverse to the slot and adapted to embrace the end of a chain link adjacent to the one within the V-shaped channel substantially as shown and described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS ^{his} X GIBSON.
mark

Witnesses:

JAKE FISHER,
C. E. MOLLOHAN.

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