J. Q. NEAL.

CHAIN LOCK.

APPLICATION FILED MAY 4, 1916.

1,265,486. Patented May 7, 1918.

Fig. 1.

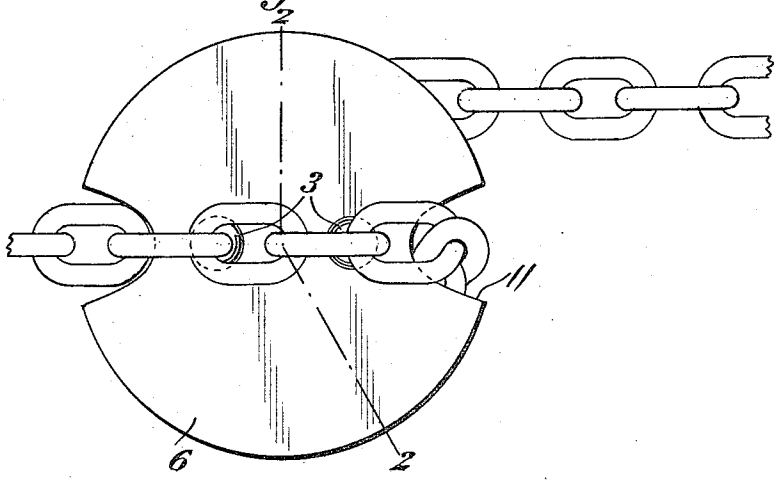


Fig. 2.

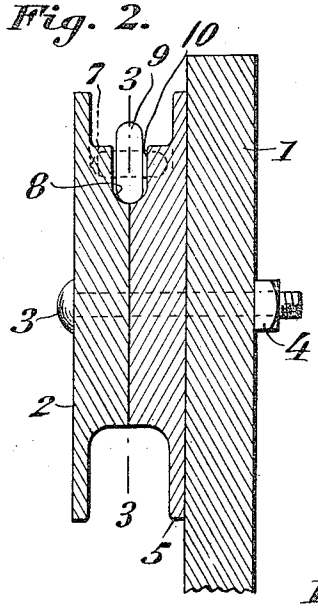


Fig. 3.

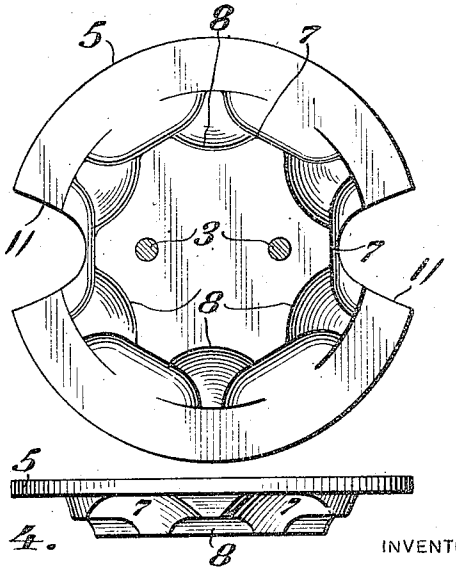


Fig. 4.

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CHAIN-LOCK.

1,265,486. Specification of Letters Patent. Patented May 7, 1918.

Application filed May 4, 1916. Serial No. 95,429.

To all whom it may concern:

Be it known that I, JOHN Q. NEAL, a citizen of the United States, residing at Bude, in the county of Franklin and State of Mississippi, have invented certain new and useful Improvements in Chain-Locks, of which the following is a specification.

This invention relates to chain locks and as the primary object thereof, contemplates the provision of novel means for securely fastening log and binding chains in such a manner that the chains may be released without effort or loss of time or danger to persons or property, the means being formed of various sizes so as to accommodate various size chains.

Another object of this invention resides in the provision of a device of the above described character embodying two rigidly connected disks adapted for association with a suitable support such as, for instance, a car bunk, the disk being provided with means for receiving and locking a chain after it has been passed around the logs or load on the car.

It is a more specific object of this invention to provide the peripheries of the adjacent disks with alternately arranged link receiving recesses for receiving and locking a chain; and to provide the peripheries of the disk sections of the lock body with chain receiving slots.

A still further object of my invention resides in the provision of a device of the character described that is simple in construction, efficient in operation and one that can be manufactured and placed on the market at a minimum cost.

Other objects as well as the nature, characteristic features and scope of my invention will be more readily understood from the following description taken in connection with the accompanying drawings and pointed out in the the claims forming a part of this specification.

In the drawings:—

Figure 1 is a front elevation of my invention;

Fig. 2 is a vertical section taken on line 2—2 of Fig. 1;

Fig. 3 is a side elevation of one disk section, the view being taken on line 3—3 of Fig. 2; and

Fig. 4 is a side elevation of one disk section.

Referring more particularly to the drawings I have associated with a support 1 my improved chain lock generally designated 2 preferably through the medium of bolts 3, the outer ends of which are engaged by nuts 4.

This body is preferably formed of two complemental disk sections 5 and 6 the outer peripheries of the sections 5 and 6 being reduced at their adjacent side edges and provided with a plurality of alternately arranged circumferentially extending link receiving recesses 7 and radially arranged link receiving recesses 8. As is apparent when the disks are secured by the bolts these recesses on one section will lie in registration with the recesses on the other section. By this arrangement a chain can be engaged with the recesses 7 and 8 so that some of the links 9 thereof will be vertically arranged in the radially extending recesses 8 while other links 10 will be arranged transversely of the disk sections 5 and 6 in the circumferentially extending recesses 7. In effect the engagement of the chain with the recesses 7 and 8 is a substantial mesh such as a chain with a sprocket wheel.

To further assist in the locking of a chain I have provided the outer edge of each disk at diametrically opposite points with chain receiving slots 11. Said slots being adapted to receive a chain after the links thereon have been arranged in locked engagement with the recesses 7 and 8.

The operation of this invention is as follows:

After the chain has been placed around the load it is arranged in locked engagement with the recesses 7 and 8 and the extreme free end thereof is thrown over and engaged in one of the slot engaging recesses 11 where it will hang by its own weight making it impossible to become detached unless it is raised by the hand or some implement.

It is thought to be understood that the more strain exerted on the chain the more secure is the fastening, the release however, is the same regardless of the strain put on the chain. To release all that is necessary is to pick the free end of the chain out of the slot, if it happens to be in such a position, and let it fall of its own weight or else give the chain a slight jerk and the release is completed.

Of course in some instances the position

of the body will be such that it will be hard to allow the free end of the chain to be placed in a position so that it will hang due to its own weight. This is due to the fact that the chain might not be long enough or else the slots 11 might not be so positioned as to readily receive the free end of the chain. In such case however, it is to be understood that additional slots 11 may be provided. At any rate it is thought to be understood from the above description that various modifications and changes may be made as fall within the scope of the appended claims.

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

1. A chain lock comprising a body composed of two disks that are peripherally shaped to form a groove when the disks are rigidly secured together, said disks at the bottom of the groove being provided with recesses adapted to engage with the links of a chain, and provided upon their largest diameter with chain receiving slots.

2. A chain lock comprising a body composed of two disks provided with circumferential flanges forming a thickened central circular portion which is provided with recesses, so that, when the disks are assembled together a recessed chain engaging groove is formed between the flanges, said flanges being peripherally provided with slots to coöperate with a chain disposed in said groove to removably retain said chain in a predetermined position.

3. A chain lock comprising a body having its outer edge thereof provided with a plurality of diametrically positioned circumferentially and radially extending recesses for receiving and locking the links of a chain.

4. A chain lock including a body composed of two complemental disk sections rigidly associated with each other and having their outer peripheries provided with chain receiving slots and their adjacent inner faces provided with means for receiving and locking a chain.

5. A chain lock including a body composed of two disk sections, means for rigidly connecting the sections to a support, the outer peripheries of the sections being provided with chain receiving slots, and the outer peripheries of the adjacent faces being reduced and provided with alternately arranged circumferential and radially extending link receiving recesses.

6. A chain lock including a body composed of two complemental disk sections provided on their outer peripheries with chain receiving slots and further being reduced and provided with a plurality of alternately arranged circumferentially and radially extending recesses, means for rigidly connecting the sections to a support so that the recesses and slots register with each other to permit of the links of a chain being arranged in a substantially removable locked engagement with the recesses.

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

JOHN Q. NEAL.

Witnesses:
W. L. FINNEY,
NICHOLAS GREENER.

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