Jan. 9, 1940. C. W. HUTCHINSON 2,186,606

LOG-ROLLING DEVICE

Filed Sept. 12, 1936

Fig. 1.

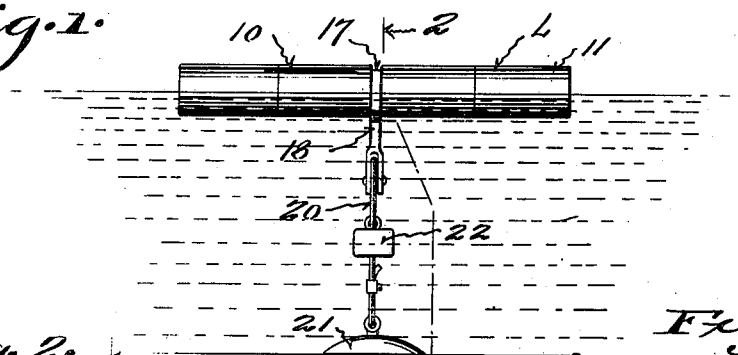


Fig. 2.

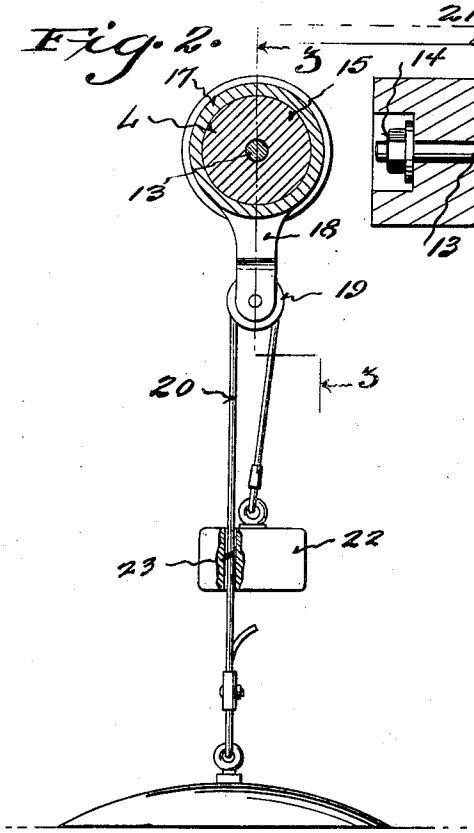


Fig. 3.

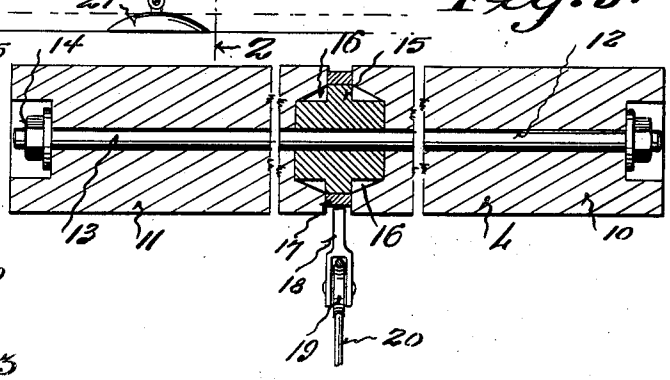


Fig. 4.

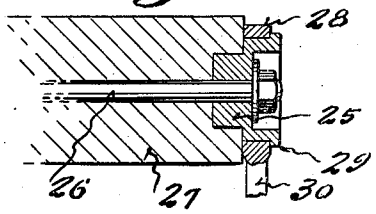


Fig. 5.

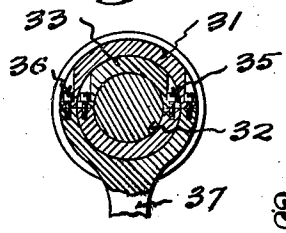
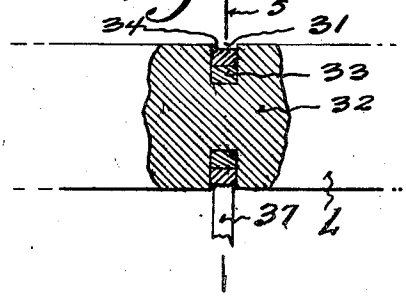


Fig. 6.



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By: Attorneys

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LOG-ROLLING DEVICE

Charles W. Hutchinson, Milwaukee, Wis.

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1 Claim. (Cl. 272—1)

This invention appertains to amusement devices, and more particularly to a log-rolling sporting device.

Log rolling is becoming popular as a water sporting and amusement device, but communities remote from lumber regions have trouble in obtaining proper logs for the sport. Likewise, considerable difficulty is experienced in holding the log against floating away, both while the log is in use and out of use. Where attempts are made to anchor the log, the anchor interferes with the free rolling of the log.

It is, therefore, one of the primary objects of my invention to provide a log-rolling device which can be standardized and conveniently shipped to all parts of the country.

Another salient object of my invention is to provide novel means for anchoring the log in such a manner that while the log is effectively held against floating away, free rolling movement thereof is assured.

A further object of my invention is the provision of novel means for connecting the anchoring device to the log and for forming the anchoring device, whereby the anchoring device will readily adjust itself to different depths of water without attention on the part of the user.

A further object of my invention is the provision of a log-rolling device embodying a plurality of sections to permit the convenient shipping of the device, with novel means for rigidly connecting the sections together to insure unitary movement of the sections when the device is in use.

A still further object of my invention is to provide a log-rolling appliance of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture, and one which can be placed upon the market at a reasonable cost.

With these and other objects in view, the invention consists in the novel construction, arrangement, and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawing, in which drawing:

Figure 1 is a side elevation of my improved sporting device.

Figure 2 is a transverse section through the same, taken substantially on the line 2—2 of Figure 1 looking in the direction of the arrows.

Figure 3 is a central longitudinal section through a part of my improved device, taken substantially on the line 3—3 of Figure 2 looking in the direction of the arrows.

Figure 4 is a fragmentary longitudinal section through one end of the device illustrating a modified form of means for anchoring the log in place.

Figure 5 is a transverse section through the center of a log-rolling device, taken substantially on the line 5—5 of Figure 6, illustrating a further form of means for anchoring the log.

Figure 6 is a fragmentary longitudinal section through the long-rolling device, illustrating the same form of means for connecting the anchor with the log as that shown in Figure 5.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter L generally indicates my improved log-rolling device, which comprises the log proper 10.

The log proper 10 may comprise any preferred number of sections 11, all of which have formed therein an axially disposed bore 12 for the reception of the centrally disposed shaft or axle 13. The ends of the shaft or axle 13 are threaded for the reception of holding nuts 14, and the outer terminals of the outermost sections 11 can be notched so that the nuts can be counter-sunk therein.

In order to effectively anchor the log in place against floating away and still permit the free rotation of the log, I provide a central hub or bearing member 15. This hub or bearing member 15 rotatably receives the axle 13 and is preferably disposed between the adjacent ends of the innermost sections 11 of the log proper.

To unite the bearing 15 with the log sections, the bearing can be provided with webs or the like 16, which are forced into the wood of the sections. A bearing ring or collar 17 is fitted on the hub or bearing 15, and this collar has depending therefrom an arm 18, which in turn carries a pulley 19. Trained about the pulley 19 is the anchor cable 20, and one end of the cable has secured thereto a suitable anchor or weight 21. The other end of the cable has attached thereto a weight 22, which is slidably mounted on one stretch of the cable 20. As is clearly shown in Figure 2 of the drawing, the weight 22 is provided with a vertically disposed opening 23 for slidably receiving the cable.

The anchor 21 is heavier than the member 22, and consequently the anchor will sink in the water until the same reaches the bottom and weight 22 will be elevated in accordance with the depth of the water. Thus, the log will keep its place on top of the water irrespective of the rising or falling of the water.

Due to the provision of the shaft 13, the hub 15, and the collar 17, the log proper is allowed to turn freely, and hence the anchor will not interfere in any way with the free use of the log for log-rolling contests. By providing the log proper 10 in sections, the entire device can be conveniently shipped.

While I have shown the hub or bearing 15 located at the center of the log proper 10, it is to be understood that the position thereof can be varied. In Figure 4 I have shown bearings 25 connected to the end of an axle or shaft 26 which extends through a log 27. In this instance, the log ran be made in one length, if so desired, and a bearing is provided for each end of the axle. A bearing collar 28 is fitted on the bearing 25 and is held against lateral displacement by means of an annular shoulder 29 on the bearing. The bearing collar 28 can then be provided with an arm 30 for carrying the sheave or pulley (not shown) for the anchor.

In order to permit my anchor to be used intermediate the ends of a solid log, I can provide a split bearing collar 31 and a split bearing hub 33. The log 32 is provided with an annular groove 34, which receives the split bearing 33, and the sections of the split bearing 32 are securely held in place by fastening screws 35. The split bearing collar 31 can then be placed around the split bearing 33, and the sections thereof are held in position by means of screws 36. Depending from one section of the split bearing collar is a depending arm 37 which can carry the pulley for the anchoring device.

From the foregoing description it can be seen that I have provided a novel and efficient water sporting device, which will permit the effective rolling of the log without danger of the log being washed away.

Changes in details may be made without departing from the spirit or the scope of this invention, but what I claim as new is:

In a water sporting device, a buoyant member having an annular groove therein intermediate its ends, a sectional bearing sleeve fitted in said groove, with the sections thereof rigidly connected together, a sectional bearing collar fitted around the bearing sleeve with its sections connected together, and means for attaching an anchor to the collar.

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