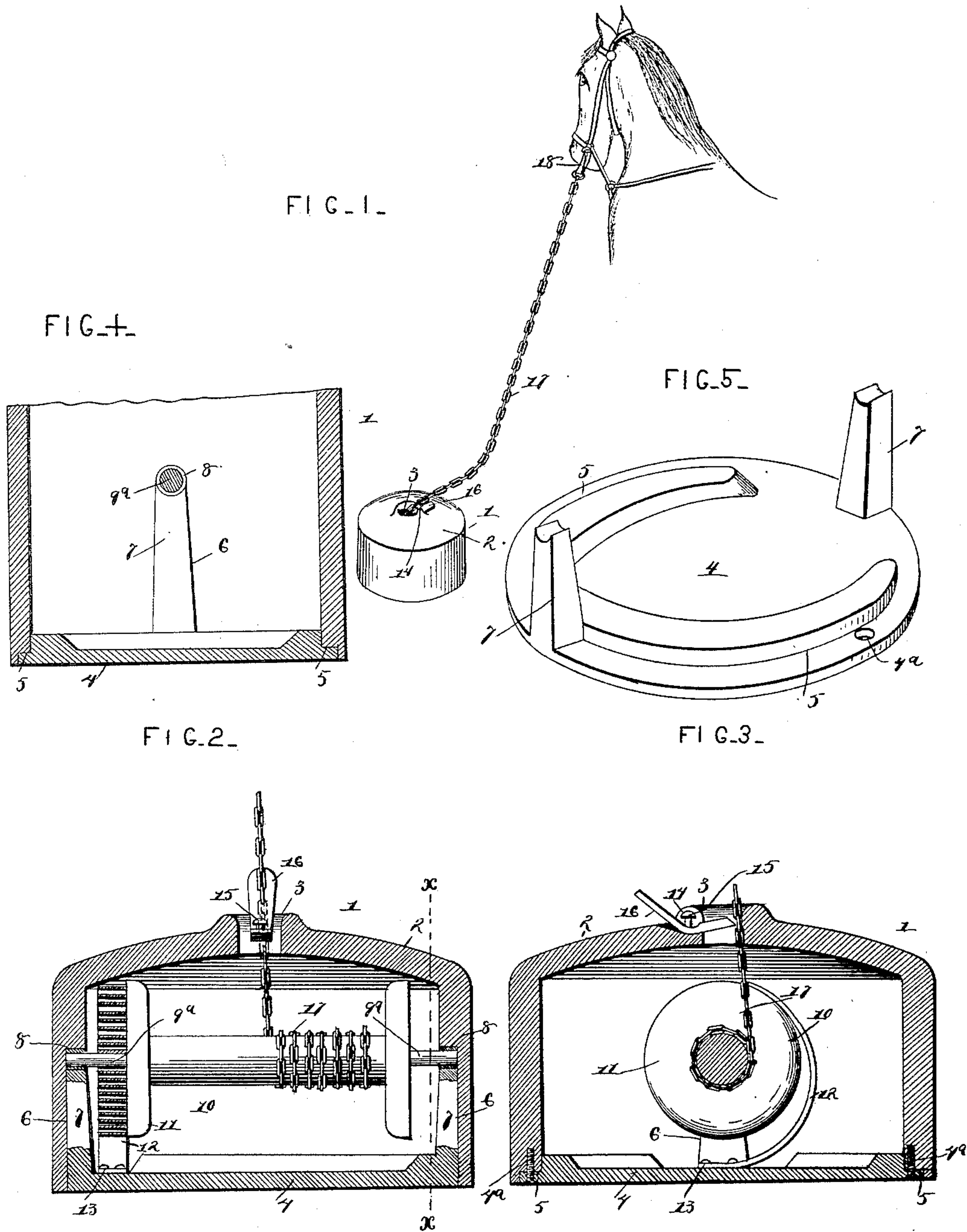


(No Model.)

I. MOTTER.  
HITCHING WEIGHT.

No. 450,633.

Patented Apr. 21, 1891.



Witnesses

*Geo. C. Frick.*

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By his Attorneys,

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# UNITED STATES PATENT OFFICE.

ISAAC MOTTER, OF ST. JOSEPH, MISSOURI.

## HITCHING-WEIGHT.

SPECIFICATION forming part of Letters Patent No. 450,633, dated April 21, 1891.

Application filed October 9, 1890. Serial No. 367,569. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC MOTTER, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and useful Hitching-Weight, of which the following is a specification.

My invention relates to a horse-hitching weight which is provided with a chain for securing a horse thereto, and in which the chain when detached from the horse will automatically be wound in compact form within a suitable casing; and its objects are to provide a simple and convenient form of the hitching device which shall be strong and durable in its construction; and my invention consists in certain features of novelty, to be hereinafter described, and then pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of my improved horse-weight as it appears in use. Fig. 2 is an enlarged vertical sectional view of the device extending longitudinally of the drum. Fig. 3 is a transverse sectional view of the casing showing the gravity-stop enlarged. Fig. 4 is a detail sectional view on line *x x*, Fig. 2. Fig. 5 is a detail perspective view of the base.

1 is a cylindrical casing provided with a top 2, having a central opening 3, and 4 is the circular base of the casing, provided at its upper side with an annular groove 5 to receive the lower edge of the casing, screws 4<sup>a</sup> passing through the base and into the casing. The inner side of the casing is provided with diametrically-opposite vertical recesses 6, which receive the vertical posts or uprights 7 on diametrically-opposite sides of the base, said uprights being just short enough as to leave spaces between them and the upper ends of the recesses, in which spaces are the brass boxes 8, that receive the journals 9<sup>a</sup> of the drum 10, said drum being thereby mounted within the casing. At each end of the drum are the annular flanges 11 and at one end of the drum, outside the flange at that end, is secured to the journal 9<sup>a</sup> the inner end of a coiled spring 12. The outer end of this spring is secured at 13 to the base 4, and the tendency of said spring is to turn the drum 10. At one side of the opening 3 at the top of the casing is a recess 14, in which is pivoted on a pin 15

an automatic gravity lever or stop 16, which is bent into angular form, as shown. When the chain 17, which has the snap-hook 18 at its outer end and is secured to the drum 10 at its inner or lower end, is drawn out of the casing and off of the drum on which it is coiled the gravity-stop 16 will engage said chain at its inner end, as that end is weighted, and prevent the chain from being drawn within the casing and upon the drum by reason of the tendency of the coiled spring. When the weight is not in use and has been detached from a horse, the outer end of the gravity-stop 16 is depressed, thus releasing its inner end from engagement with the chain and permitting the chain to be wound upon the drum within the casing by the action of the coiled spring.

My improved horse-hitching weight is simple in construction, costs but little to manufacture, and is very durable. The advantage incident to the automatic or gravitating stop is that it prevents the coiled spring from acting on the chain and thus pulling on the horse's mouth.

What I claim is—

In a hitching-weight, the combination of a cylindrical casing provided on its inner side with diametrically-opposite vertical recesses, a removable base to the casing provided with diametrically-opposite vertical posts or uprights fitting within said recesses, said posts or uprights being shorter than said recesses, a drum, journals to said drum, boxes receiving said journals and which fit in the spaces between the ends of said posts and the tops of said recesses, a coiled spring surrounding one of the journals and fixed thereto at one end and to the base at the other end, and a chain fixed to said drum and passing through an opening in the casing, and an automatic stop at one side of the opening adapted to engage said chain, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ISAAC MOTTER.

Witnesses:

J. T. CARBERY,  
ARTHUR GRUBB.