

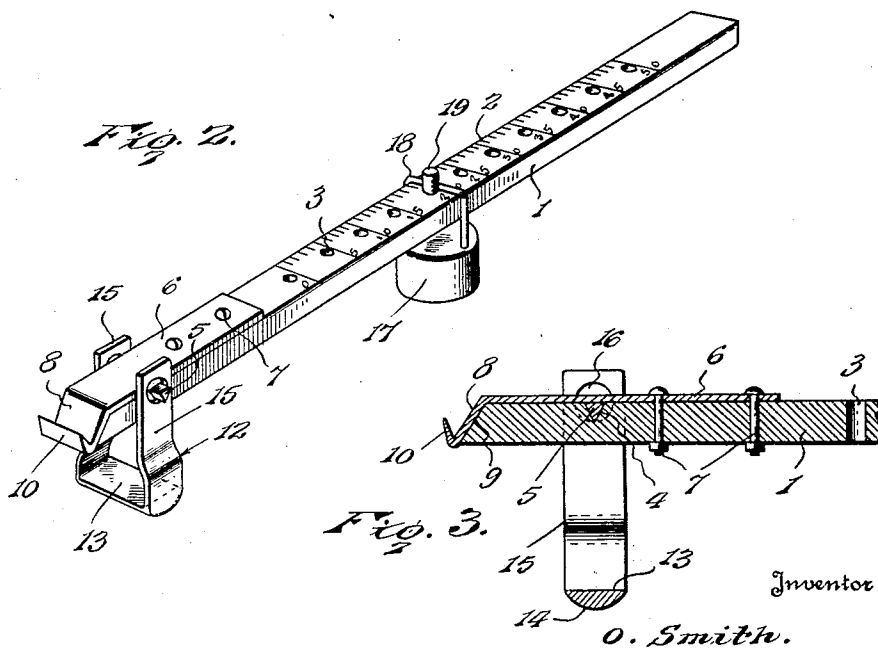
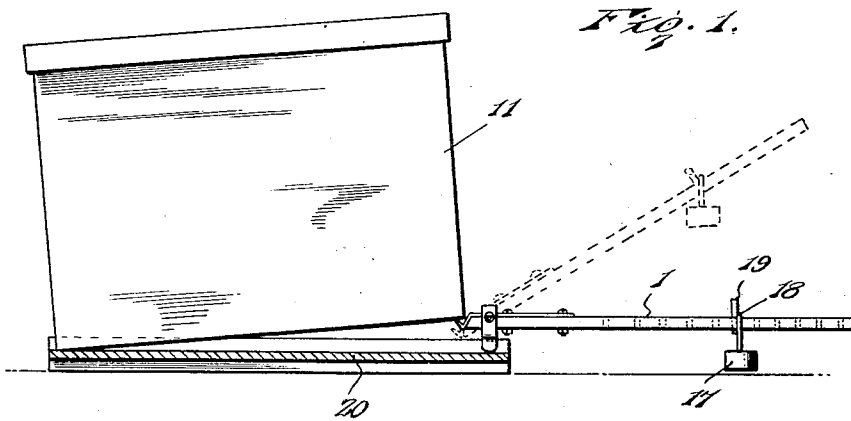
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O. SMITH

SCALE

Filed June 14, 1927



By *Lacey, Lacey,* Attorneys

UNITED STATES PATENT OFFICE.

ORISON SMITH, OF CANADA, KENTUCKY.

SCALE.

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The present invention is directed to improvements in scales.

The primary object of the invention is to provide a device of this kind designed to determine the approximate net weight of the hive and stores in the hive upon simply tilting the hive at one end above the floor board.

Another object of the invention is to provide a scale for this purpose so constructed that the apiarist can ascertain approximately the amount of stores in the hives in order to eliminate the likelihood of overfeeding or underfeeding the bees.

In the accompanying drawing:

Figure 1 is a side elevation of the scale, showing the same in its operative position in connection with a hive.

Figure 2 is a perspective view of the scale.

Figure 3 is a detail longitudinal sectional view through the forward end of the scale.

Referring to the drawing, 1 designates a beam, preferably formed from wood, said beam having upon its upper surface graduations 2 denoting pounds, there being perforations 3 formed in the beam, the purpose of which will be later explained.

The beam is provided adjacent its forward end with a transverse groove 4 in which is mounted the bar 5, the ends of which extend somewhat beyond the sides of the beam, the purpose of which will later appear.

A metal plate 6 is engaged upon the upper surface of the beam and is secured thereto by clamping bolts 7, two of which are employed. The forward end of the plate 6 is inclined forwardly and downwardly to provide a shank 8 which rests upon the beveled end 9 of the beam. This shank terminates in a hook 10, designed to engage under the forward end of the hive 11.

A U-shaped fulcrum member 12 is employed and comprises a foot bar 13 having a rounded under surface 14. The ends of said bar having angularly disposed arms 15, the upper ends of which are provided with bearings 16 for engaging the extended ends of the rods 5 in order to pivotally connect the beam to said member.

A weight 17 is employed and has a bail 18

carried thereby for slidably engaging the beam, said weight being held in adjusted positions upon the beam by a pin 19 adapted to engage in a selected perforation 3.

In use the beam is first placed in the position shown in dotted lines in Figure 1 at which time the fulcrum member rests upon the floor board 20. The hook 10 is then engaged under the forward end of the hive and the beam rocked downwardly, whereupon the weight is adjusted upon the beam until the hive and weight counterbalance, the location of the bail upon the beam denoting approximately the weight of the contents of the hive. It will be of course understood that allowance is made for the normal weight of the hive and its contents.

Having thus described the invention, I claim:

1. A scale of the class described comprising a fulcrum member adapted to rest upon the floor board of a hive, said fulcrum member having bearings carried thereby, a beam having a bar fixed transversely thereof, a plate carried by the beam, and having a hook upon its forward end for engagement under the forward end of a hive resting upon the floor board, said beam having a plurality of perforations formed therein, a weight having a bail for slidably engaging the beam, and a pin adapted to selectively engage the perforations to maintain the bail, and thus the weight, in adjusted position upon the beam.

2. A scale of the class described comprising a U-shaped fulcrum member, said fulcrum member including a foot bar and side arms having bearings formed therein, a beam having a transverse groove formed therein, a plate fixed to the upper surface of the beam and having a hook upon its forward end, a bore engaged in said groove for pivotally engaging the bearings of said arms, said beam having a plurality of perforations formed therein, and a weight adjustably mounted on the beam.

In testimony whereof I affix my signature.

ORISON SMITH. [L. S.]