

C. O. NELSON.

HOOK SCALE.

APPLICATION FILED JUNE 29, 1916.

1,238,045.

Patented Aug. 21, 1917.

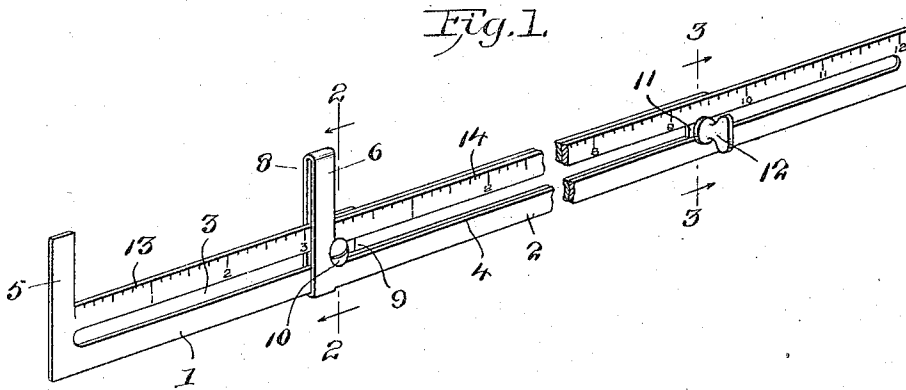


Fig. 2.

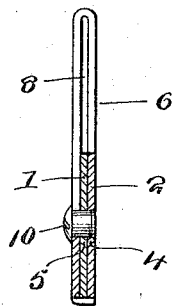
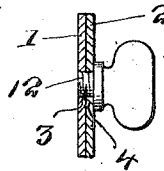


Fig. 3.



WITNESSES

J. H. Burgess

INVENTOR

C. O. Nelson
Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

CARL OSCAR NELSON, OF EAST PITTSBURGH, PENNSYLVANIA.

HOOK-SCALE.

1,238,045.

Specification of Letters Patent.

Patented Aug. 21, 1917.

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To all whom it may concern:

Be it known that I, CARL OSCAR NELSON, a citizen of the United States, residing at East Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Hook-Scales, of which the following is a specification.

This invention relates to the general class of scales and particularly to the particular class of hook scales.

One of the objects of the invention is to provide a hook scale which will be inexpensive to manufacture, easy to operate and which may be used as a calipers if desired.

Other objects and advantages of this invention will appear hereinafter, it being understood that changes in form, proportion and minor details of construction may be resorted to without departing from the scope of the invention or sacrificing any of the advantages thereof.

In the drawings:

Figure 1 is a perspective view of the invention, showing the parts distended in the manner that the device will be used as a calipers.

Fig. 2 is sectional view on the line 2—2 of Fig. 1, and,

Fig. 3 is a sectional view on the line 3—3 of Fig. 1.

The device is illustrated as consisting of two parts 1, and 2, substantially of the same construction and each of which is provided with an elongated slot. The slot in the part 1 is designated by the numeral 3 and the slot in the part 2 is designated by the numeral 4.

At the one end of each part is a right angularly extending finger or projection, these being designated by the reference numerals 5 and 6 respectively. The finger 6 on the part 2 extends across one side of the part one and around the other as shown at 7 to form a loop 8 through the half of which the bar of the part 1 slides. There is an offset 9 which carries a headed pin 10, projecting through the slot 4 to prevent lateral movement of the bar of the part 1 within the loop 8. The end 11 of the part 1 is provided with a pin 12 which also projects through

the loop 4 and assists in preventing lateral play between the parts at the ends distant from the fingers 5 and 6.

By reference to Fig. 1 it will be noticed that the size of the loop is coextensive with that of the finger 5 so that when the parts are slid one upon the other the finger 5 will fit within the loop 8. The edges of one or both of the parts 1 and 2 may be calibrated in the usual manner to have the usual divisions thereon as indicated at 13 and 14.

When the device is to be used as a hook scale the parts 1 and 2 will ordinarily be brought together and the fingers 5 and 6, or one of them may be hooked under a part to be measured and by observing the calibrations the dimension of the measured part may be determined.

When it is desired to use the device as a calipers, the parts will be distended and the length of the division or space between the fingers 5 and 6 will indicate the dimension sought for example the diameter of a rod, shaft or the like.

The device may be constructed of any suitable material, but I prefer to make it of sheet steel or some similar material.

From the foregoing it will be observed that the device herein described can be constructed in an inexpensive manner and that it is well adapted to perform the functions for which it was designed.

What I claim and desire to secure by Letters Patent is;

1. A hook scale comprising two parts each of which is provided with a right angularly extending finger, the finger of one of the parts being bent back upon itself to form a loop for the reception of the other finger, one of said parts carrying graduations.

2. A hook scale comprising two parts, each of which is provided with elongated slots, guide pins on one of said parts and projecting through the said slots, and right angularly extending fingers at adjacent ends of said parts, one of said fingers being in the form of a loop for the reception of the other finger.

3. A hook scale of the class described comprising two bars each of which is pro-

vided with an elongated slot and with a right angular extending finger, the finger of one of the bars being bent back upon itself to form a loop for the reception of the other
5 finger and pins mounted in the slots and associated with the bars, one of the pins being supported at the loop.

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

CARL OSCAR NELSON.

Witnesses:

EDW. BLOTZER,
P. McGLASHAN.

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