C. W. MIKAELSON.

COMBINED ICE TONGS AND WEIGHING DEVICE.

APPLICATION FILED MAY 13, 1910.

983,635.

Patented Feb. 7, 1911.

Fig. 1.

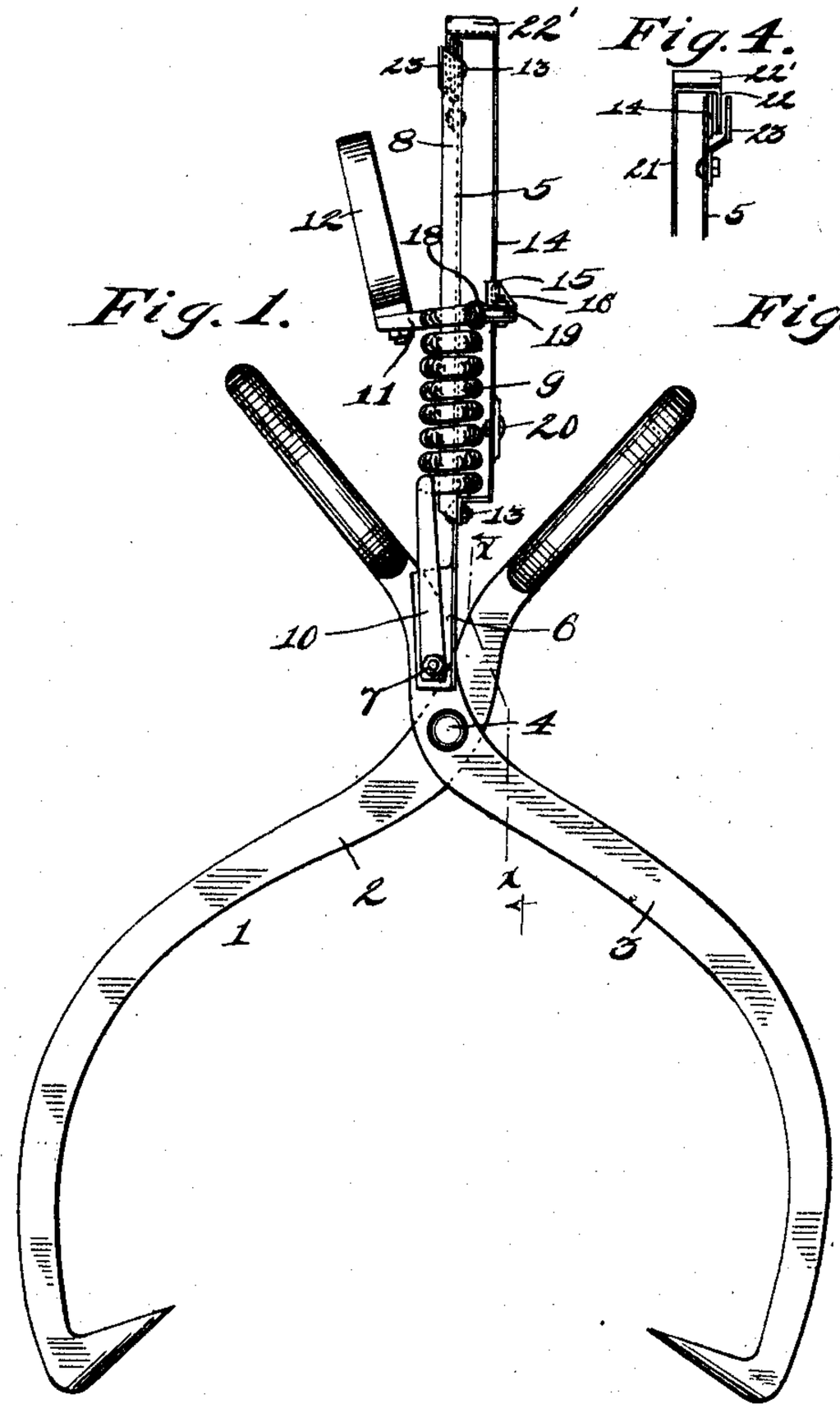


Fig. 4.

Fig. 2.

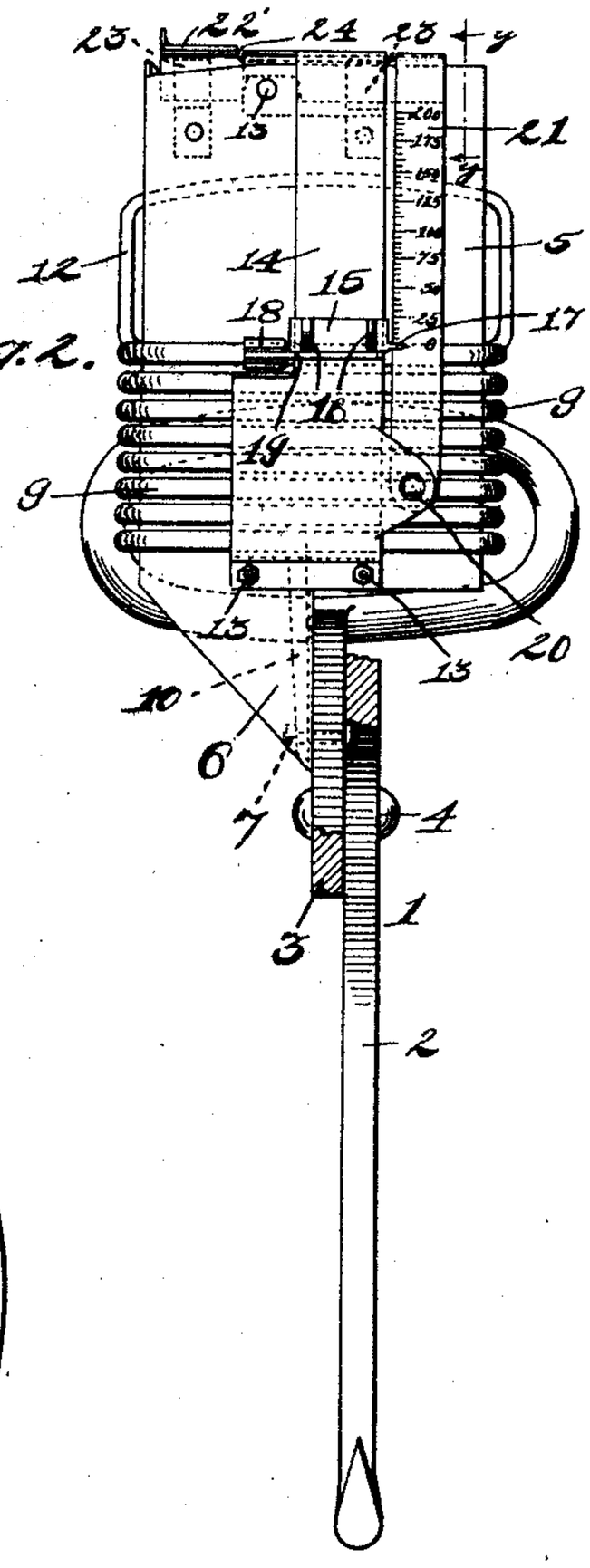
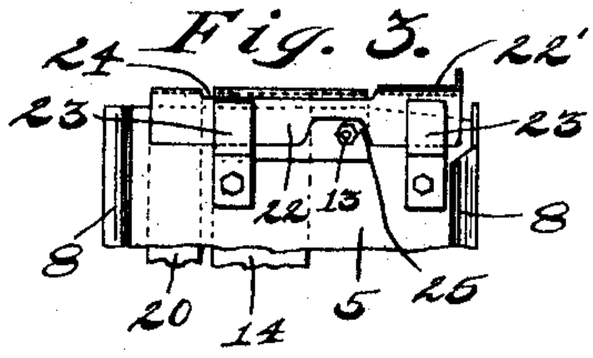


Fig. 3.



Witnesses:
E. E. Wessels.
A. A. Olson.

Inventor:
Carl W. Mikaelson,
By Joshua R. H. Potts
his Attorney.

UNITED STATES PATENT OFFICE.

CARL W. MIKAELSON, OF CHICAGO, ILLINOIS.

COMBINED ICE-TONGS AND WEIGHING DEVICE.

983,635. Specification of Letters Patent. Patented Feb. 7, 1911.

Application filed May 13, 1910. Serial No. 561,244.

To all whom it may concern:

Be it known that I, CARL W. MIKAELSON, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented a certain new and Improved Combined Ice-Tongs and Weighing Device, of which the following is a specification.

My invention relates to a combined ice tong and weighing device and has for its object the production of a device of this character by means of which a cake of ice may be carried in the manner usual with ordinary ice tongs and by means of which the weight of the ice cake may be readily and quickly ascertained while the same is still positioned in the tongs.

A further object is the provision of a device of the character mentioned which will be of strong and durable construction and efficient in operation.

Other objects will appear hereinafter.

With these objects in view my invention consists in a combined ice tong and weighing device characterized as above mentioned and in certain details of construction and arrangement of parts all as will be hereinafter fully described and more particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a side elevation of a device embodying the preferred form of my invention, Fig. 2 is a section taken on line *x*—*x* of Fig. 1, Fig. 3 is a fragmentary detail, and Fig. 4 is a sectional detail on line *y*—*y* of Fig. 2.

Referring now to the drawings 1 designates a pair of ice tongs of ordinary design, the same being comprised of the similar tong arms 2 and 3 which are pivoted together at 4; the upper ends of said arms being formed into loop handles and the lower extremities thereof being offset for engagement or grasping.

Arranged at the upper end of the tongs 1 is a vertically disposed transversely extending plate 5, the lower end 6 thereof being pivotally secured by means of a pin or screw 7 to the arm 3 above the pivotal point 4, said lower end 6 of said plate being cut away, as indicated, in order that said plate shall be substantially centrally positioned above the tongs 1. The plate 5 is substantially rectangular in form the vertical edges thereof being preferably reinforced by integral ribs 8. Coiled about the plate 5 is a calibrated coil spring 9, the lower end 10 thereof being secured to the tong arm 3 by the pin or screw 7. To the upper end 11 of said spring is rigidly secured a hand loop or grip 12. Arranged upon the front side of the plate 5 the respective ends thereof being secured to said plate by means of screws and nuts 13, is a substantially centrally positioned vertically extending plate 14, the central portion of the latter, in order to permit of free movement of the spring 9 between the same and the plate 5 being spaced from the latter, as clearly shown in Fig. 1. The upper end portion of the plate 14 is reduced, a sleeve 15 embracing said portion being loosely slidable thereon. The front side of the sleeve 15 is provided with projecting ears 16 and at one end of said sleeve is provided a projecting indicator 17. Secured by means of a loop 18 to the uppermost coil of the spring 9 is a finger 19, the free end of the latter being positioned in close proximity with the front surface of the plate 14 for engagement with the sleeve 15 and the ears 16 formed thereon, said sleeve normally resting upon said finger. With this arrangement it will be seen that upon the expansion of the spring 9 the sleeve 15 will be forced upwardly upon the plate 14 by the finger 19.

Having its lower end 20 pivotally secured to an offset portion at the lower end portion of the plate 14 is an upwardly extending lever 21 coplanar with said plate 14. The upper end portion 22 of said lever 21 extends over the upper edge of the plate 5, the same being offset, as clearly shown in Fig. 3, and formed at its extremity 22′ into a thumb engagement portion; said portion 22′ being so positioned that, when the hand is gripping the loop 12 the thumb will naturally rest upon said portion 22′. Thus the lever 21 may be oscillated by means of the thumb. Said portion 22 of the lever 21 rests in guides 23 provided upon the back side of the plate 5, the same being slotted at 24 for clearance of the upper end of the plate 14, and at 25 for clearance of the screw 13 which secures the upper end of said plate 14. The lever 21 is so arranged relative to the plate 14 that by swinging said lever toward said plate the same will engage the sleeve 15, and whereby the latter may be held in any

position upon said plate 14 to which it may be elevated by the finger 19. The front side of the lever 21 is graduated or formed into a scale which is adapted to coöperate with the indicator 17 carried by the sleeve 15 to indicate the weight of the ice carried in the tongs when the latter are supported by the grip 12.

By the provision of the lever 21 pivotally arranged as described for coöperation with the sleeve 15, the latter upon being slid by the finger 17 upon the plate 14 to weight-indicating position, may be held in such position by said lever even after the ice has been dropped from the tongs. Upon rocking said lever to release said sleeve, the latter will drop by gravity to initial position upon the finger 17.

While I have shown what I deem to be the preferable form of my device I do not wish to be limited thereto as there might be various changes made in the details of construction and arrangement of parts described without departing from the spirit of the invention comprehended within the scope of the appended claims.

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

1. In a device of the class described, the combination of a weighing device, said device comprising a vertically expansible calibrated coil spring; a hand grip provided at the upper end of said spring; a guide; a loosely slidable indicator mounted for movement on said guide; a finger carried by said spring and arranged to contact and elevate said indicator; and a thumb lever for locking said indicator in any position to which it may be moved by said spring, substantially as described.

2. In a device of the class described, the combination of a weighing device, said device comprising a vertically expansible calibrated coil spring; a hand grip provided at the upper end of said spring; a guide; a loosely slidable indicator mounted for movement on said guide; a finger carried by said spring and arranged to contact with and elevate said indicator; and a graduated thumb lever for locking said indicator in any position to which it may be moved by said spring, substantially as described.

3. In a device of the class described, the combination of a weighing device, said device comprising a vertically expansible calibrated coil spring; a hand grip provided at the upper end of said spring; a stationary guide plate for said spring; a bar carried by said guide and spaced therefrom; a sleeve loosely slidable upon said bar and mounted for vertical movement by said spring when expanded; an indicator point upon said sleeve; and a thumb operable oscillatory lever having scale graduations and adapted to engage said sleeve to hold the same in any position to which it may be moved by said spring, substantially as described.

4. In a device of the class described, the combination of a weighing device, said device comprising a vertically expansible calibrated coil spring; a hand grip provided at the upper end of said spring; a stationary guide plate for said spring; a bar carried by and spaced from said guide plate; a sleeve embracing said bar and loosely slidable thereon; means carried by said spring adapted to engage said sleeve to vertically move the same upon the expansion of said spring; an indicator point upon said sleeve; and a thumb operable oscillatory lever having scale graduations and adapted to engage said sleeve to hold the same in any position to which it may be moved by said spring, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CARL W. MIKAELSON.

Witnesses:

HELEN F. LILLIS,

JOSHUA R. H. POTTS.