

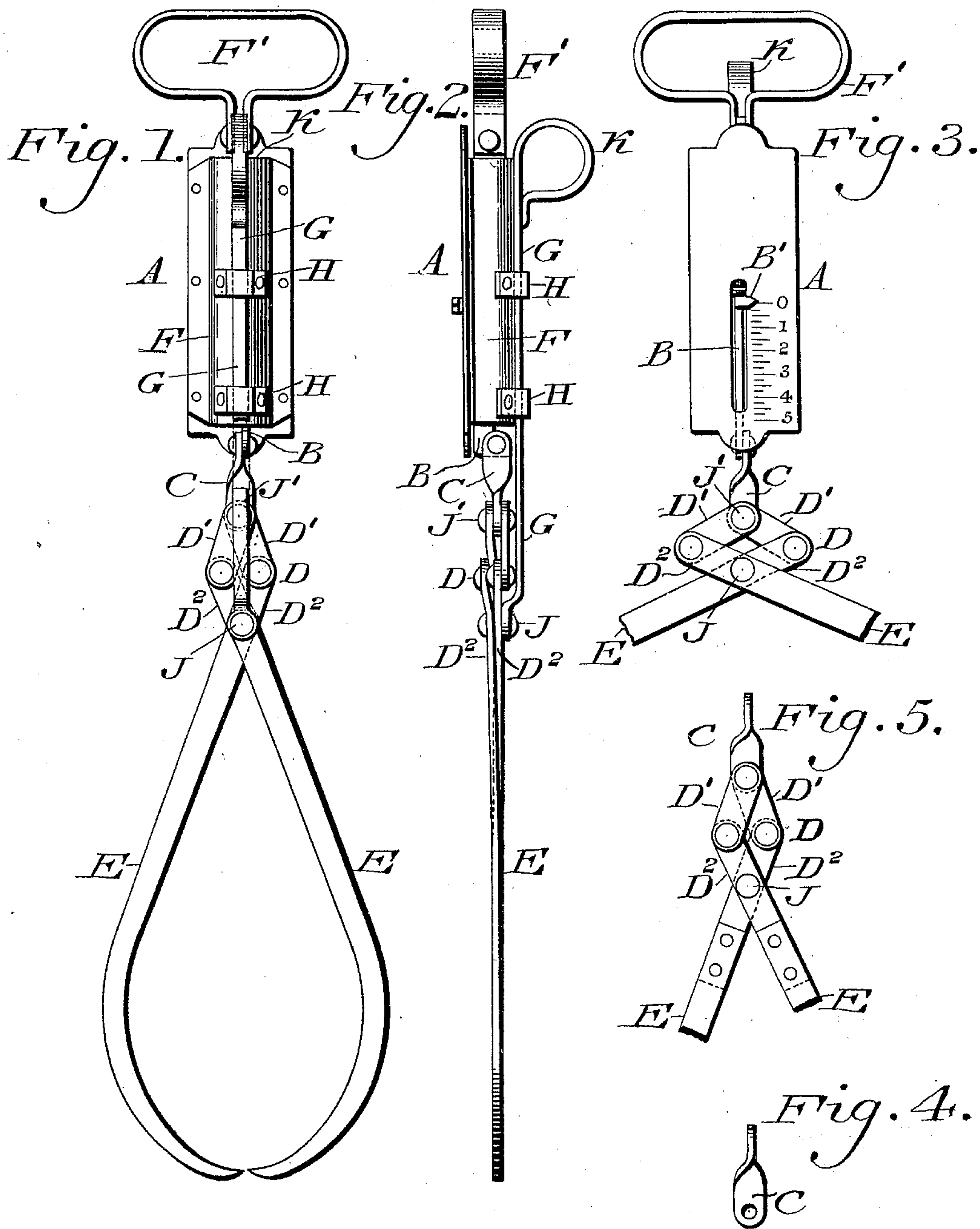
No. 697,894.

Patented Apr. 15, 1902.

W. F. SHILEY.
WEIGHING TONGS.

(Application filed Nov. 4, 1901.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM F. SHILEY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO CHARLES A. HASLETT, OF PHILADELPHIA, PENNSYLVANIA.

WEIGHING-TONGS.

SPECIFICATION forming part of Letters Patent No. 697,894, dated April 15, 1902.

Application filed November 4, 1901. Serial No. 80,978. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. SHILEY, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Weighing-Tongs, of which the following is a specification.

My invention consists of a weighing-scale more particularly adapted for holding ice and weighing the same, as will be hereinafter described and the novel features set forth in the claims.

Figure 1 represents a rear view of weighing-tongs embodying my invention. Fig. 2 represents a side elevation thereof. Fig. 3 represents a front view of a portion thereof. Fig. 4 represents a perspective view of a detached portion. Fig. 5 represents a front view of a modification.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a scale which in the present case consists of a spring-balance.

B designates the slide or follower of the scale, and B' the index or finger thereof, the former having connected with its lower end the link C, from which depends the system of levers D known as "lazy-tongs." The upper levers D' of said lazy-tongs are pivoted to said link C, and the lower levers D² are extended in the form of the members of a pair of ice-tongs E; but said members may be riveted or otherwise secured to said levers D², as shown in Fig. 5. Connected with the upper end of the casing F of the scale is the handle F' for carrying purposes.

G designates a sliding rod or bar which is guided in eyes H on the back of the casing F and has its lower end connected with the pivot J of the lower terminal of the lazy-tongs. The upper end of said bar is provided with the handle K, whereby said bar may be conveniently raised for the purpose of opening the tongs.

The operation is as follows: The bar G is raised by means of the handle K, as has been stated, by which provision the tongs open, as shown in Fig. 3, and in this condition are placed over a piece of ice, when the handle

K, and consequently the bar G, is let go. As the handle F' now carries the scale and entire load, the tongs close on and grapple the ice and firmly hold the same, it now being evident that the ice depends from the follower B and is accordingly weighed, the extent of the same being read off on the graduations of the scale, and the ice may be conveniently delivered while being carried to the desired place by the scale. When the handle K is again grasped and the bar G raised, the tongs open and are removed from the ice, leaving the latter free, as is evident, the parts then resuming their normal position, as shown in Fig. 1. The link C is of the form of a spiral or twist, so that its flatness is presented from the side to the front, thus providing a broad bearing for the pivotal connection J' of the upper levers D' of the lazy-tongs. When the handle K is grasped to open the tongs, the scale may be carried by said handle without necessarily changing to the handle F' for said purpose until another piece of ice is to be grasped, when said handle K is let go and the handle F' is grasped, so as to carry the scale with the ice depending therefrom; but, as is evident, both handles may be grasped for most conveniently operating the tongs to be opened and directed to the piece of ice in order to have the tongs properly close thereagainst.

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

1. A weighing-scale, a handle connected with the casing thereof, a vertically-arranged sliding bar mounted on said casing, a handle on the upper end of the said bar, lazy-tongs levers depending from a weighing member of said scale and having their upper axis connected with the same, and grappling-tongs connected with the lower axis of said levers, said bar being connected with said levers by said lower axis, the parts named being combined forming an improvement in weighing-tongs.

2. Lazy-tongs levers, grappling-tongs connected with the lower members thereof, a weighing-scale, a handle thereon, a movable member of said scale being connected with

the upper axis of said levers, a sliding bar mounted on said casing, the lower axis of said levers being connected with the lower end of said bar and a handle on the upper end of
5 said bar adjacent to the handle of the scale.

3. A weighing-scale, lazy-tongs levers, a link connecting the upper axis of said levers with a movable weighing member of said scale,grappling-tongs continuous of the lower
10 pair of said levers, and a vertically-movable

bar mounted on the scale and connected with the lower axis of said levers, said link being deflected partly from its broad side presenting the same to the front where it is connected with said upper axis of the levers.

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