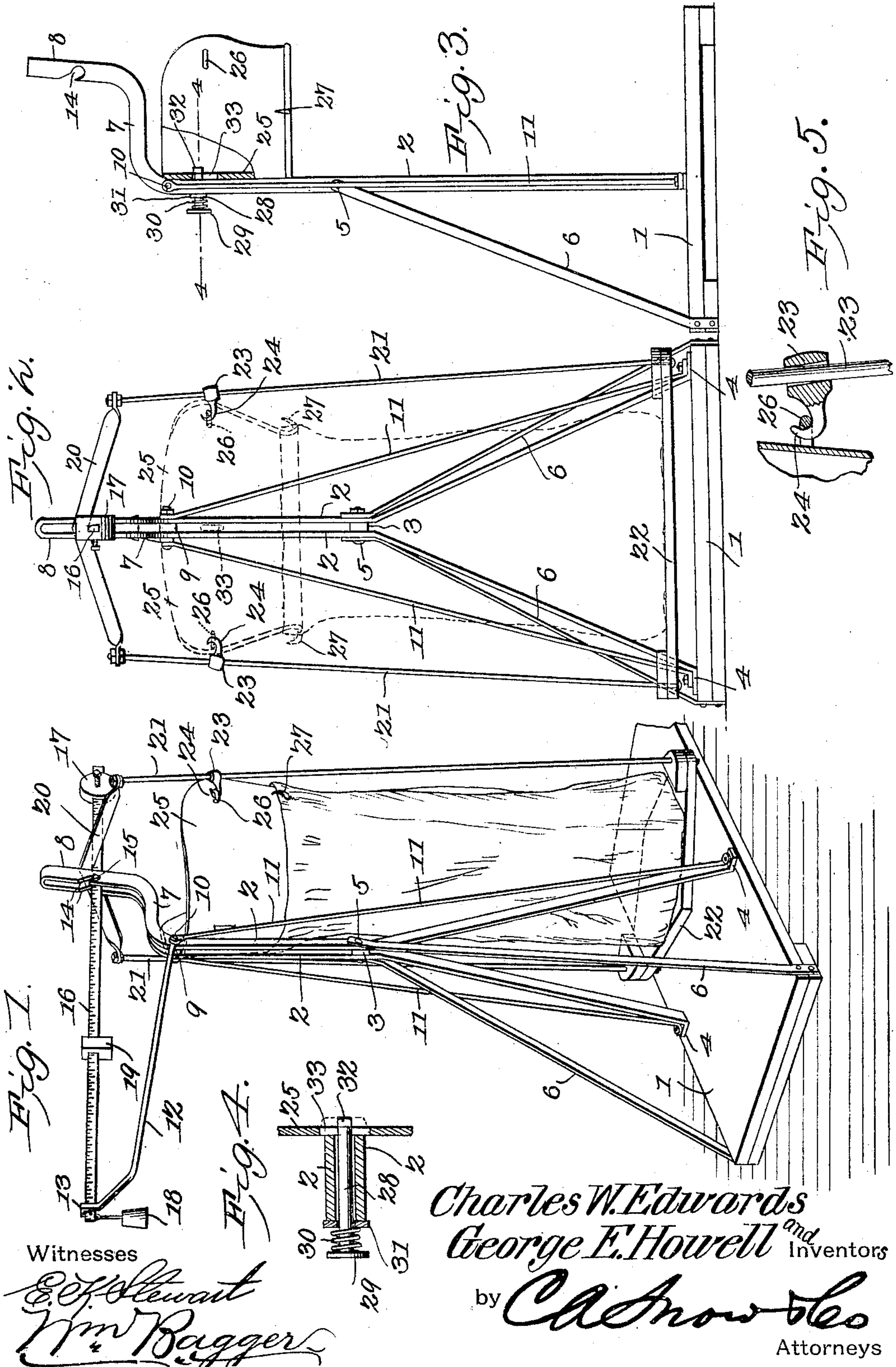


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PATENTED JULY 24, 1906.

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BAG HOLDER AND WEIGHING APPARATUS.

APPLICATION FILED NOV. 13, 1905.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES WILLIAM EDWARDS AND GEORGE ESBIN HOWELL, OF
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BAG-HOLDER AND WEIGHING APPARATUS.

No. 826,771.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed November 13, 1905. Serial No. 287,111.

To all whom it may concern:

Be it known that we, CHARLES WILLIAM EDWARDS, and GEORGE ESBIN HOWELL, citizens of the United States, residing at Maquoketa, in the county of Jackson and State of Iowa, have invented a new and useful Bag-Holder and Weighing Apparatus, of which the following is a specification.

This invention relates to an improved combined bag-holder and weighing apparatus; and the objects of the invention are to simplify and improve the construction and operation of this class of devices.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be made when desired.

In the drawings, Figure 1 is a perspective view of a device embodying the invention as seen from a rear corner. Fig. 2 is a front elevation of the same. Fig. 3 is a side elevation showing the device adapted for use as a bag-holder only, the weighing apparatus having been detached. Fig. 4 is a horizontal sectional detail view, enlarged, taken on the plane indicated by the line 4 4 in Fig. 3. Fig. 5 is a vertical sectional detail view illustrative of the means for connecting the bag-spreading guard or shield with the weighing apparatus.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

This improved device includes a base-board 1 and a main upright, which is composed of a metallic bar, such as a bar of steel or iron, of suitable dimensions, the same being bent upon itself to form side members 2 2, which are disposed in parallel vertical planes for a portion of their lengths, a spacing-block 3 being interposed between the lower ends of the parallel portions. Below the spacing-block 3 the side members 2 2 are spaced apart or diverged,

said members being provided at their lower ends with outturned feet 4, resting upon the base-board near the opposite edges of the latter. The spacing-block is secured between the members 2 2 by means of a bolt or fastening member 5, which also serves for the attachment of braces 6 6, the lower ends of which are made fast to the rear corners of the base-board.

The upper end of the upright composed of the side members 2 2 is offset forwardly, as at 7, and upwardly, as at 8. Adjacent to the forwardly-offset portion is interposed a spacing-block 9, secured by a transverse fastening member 10, which also serves for the attachment of the upper ends of braces 11, the lower ends of which are made fast to the feet 4 4 of the side members 2 2. The fastening member 10 also serves for the attachment of a rearwardly-extending bracket 12, terminating in a hook 13.

The upwardly-offset portions 8 of the side members 2 2 are provided with downwardly and forwardly inclined notches 14, in which are fulcrumed the knife-edge bearings 15 of a scale lever or beam 16, the forward end of which has an adjustable balancing-weight 17, while the rear end supports the permanent weight 18. A sliding weight 19 is also mounted in the usual manner upon the scale-beam, which is graduated in the customary well-known manner.

Supported upon the scale-beam at a short distance in front of its fulcrum is a balancing-yoke 20, provided at the ends thereof with depending rods 21, the lower ends of which are connected by a cross-bar 22, which constitutes the platform. Slidably mounted upon the rods 21 are a pair of sleeves 23, having laterally-extending hooks 24, adapted to engage the bag-spreading shield or guard 25, which latter is provided at the sides thereof with perforations or eyes 26 for engagement with the hooks 24. This bag-holding shield or guard is preferably constructed of resilient sheet metal bent to form a scoop-like structure, the lower edge of which is provided with hooks 27, adapted to be inserted into the mouth of a bag, which latter is thus retained securely in position, the tendency of the shield member being to spring to a straight or flat position, thus retaining the bag securely upon the hooks 27. When the shield member or guard is connected with the hooks

24, the latter are slid or moved upwardly upon the rods 21 to the desired position, when by releasing the parts the weight of the shield and of the bag connected therewith will slightly tilt the sleeves 23 upon the rods 21, causing opposite edges of said sleeves to bite against the rods, thereby retaining the parts in adjusted position. It is obvious that the position may be easily and quickly changed, as for the purpose of detaching the bag and placing in position a fresh one, by simply restoring the sleeves 23 manually to positions that enable them to be moved upon the rods 21 as may be desired.

15 The frame and the bag-holding shield of this device may be utilized for bag-holding purposes independently of the scale attachment by simply removing the latter, as shown in Fig. 3 of the drawings. There is mounted 20 slidably between the side members 2 2, between the spacing members 3 and 9, a shank 28, having at its rear end a head 29, in front of which is disposed a coil-spring 30, adapted to expand between the head 29 and a washer 25 31, mounted upon the shank adjacent to the rear edges of the members 2 2. The shank 28 is provided in front of the members 2 2 with a turn-button 32, adapted to engage a slot 33 in the rear portion of the shield or 30 guard 25, which latter may thus be detachably connected with the upright in such a manner as to be capable of holding a bag in convenient position for filling the same. When the device is thus used, the bag will be 35 supported directly upon the base 1.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this improved device will be readily understood. 40 The device is simple, inexpensive, easily manipulated, and well adapted for holding bags while being filled and for weighing the same. By properly adjusting the weight 17 the scale-beam may be readily balanced with the 45 bag and the holding-shield in position, after which the weights 18 and 19 may be adjusted in predetermined positions to indicate when a certain quantity of material has been placed in the bag.

50 The hook 13 at the free end of the brace 12 serves as a guide for the free end of the scale-beam, which is thereby prevented from swaying laterally, and the entire weighing device may be readily detached by simply lifting 55 the yoke 20 and its attachments from the

scale-beam and removing the weight 17, when the scale-beam may be readily lifted from the recesses or sockets 15 and withdrawn from between the side members 2 2 of the supporting-upright.

Having thus described the invention, what is claimed is—

1. In a device of the class described, a braced upright comprising two spaced side members connected at their upper extremities and having a forwardly and upwardly offset portion provided with downward-extending recesses, a scale-beam fulcrumed in said recesses, a yoke suspended from the 65 scale-beam, rods depending from the ends of the yoke, and a cross-piece connecting the rods and constituting a platform. 70

2. A base, an upright comprising side members having parallel upper portions and divergent lower portions secured upon the base, 75 braces to sustain said upright, spacing-blocks interposed between the parallel portions of the side members of the uprights, a scale-beam fulcrumed in a forwardly-offset portion at the upper end of the upright, and a 80 platform-carrying yoke suspended from the scale-beam.

3. In a device of the class described, a base, an upright having a forward-offset upper portion, a scale-beam fulcrumed in said forwardly-offset portion, a yokes uspended from the scale-beam, rods depending from the ends of the yoke, a cross-piece connecting the lower 85 ends of the rods, and sleeves slidable upon the rods and provided with laterally-extending 90 hooks, in combination with a resilient bag-holding shield having means for engaging the hooks.

4. In a device of the class described, a supporting device including an upright having 95 spaced side members, in combination with a weighing apparatus including a yoke, rods depending from said yoke, and a platform connecting the lower ends of the rods; and a bag-holding shield adjustably connected 100 with the rods depending from the yoke.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

CHARLES WILLIAM EDWARDS.
GEORGE ESBIN HOWELL.

Witnesses:

M. A. ROBINSON,
D. T. BAUMAN.