No. 671,736. Patented Apr. 9, 1901.

W. F. STIMPSON.

SWIVEL SCALE BASE.

(Application filed Sept. 24, 1900.)

(No Model.)

Fig. 1.

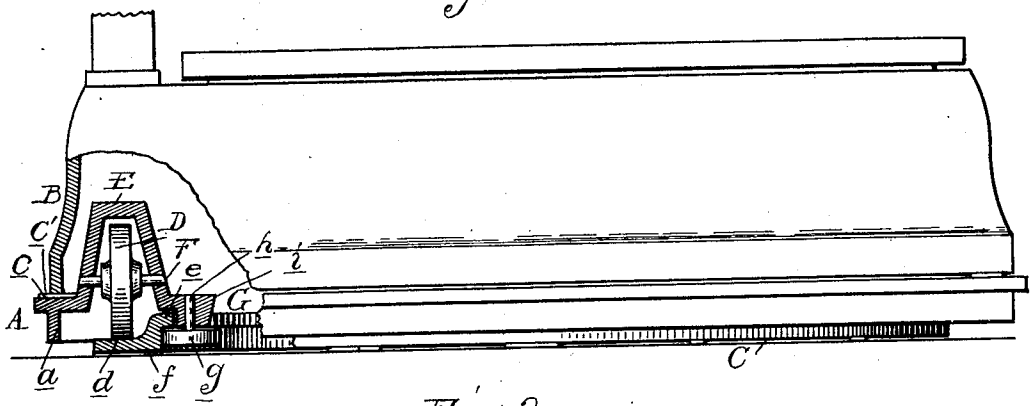
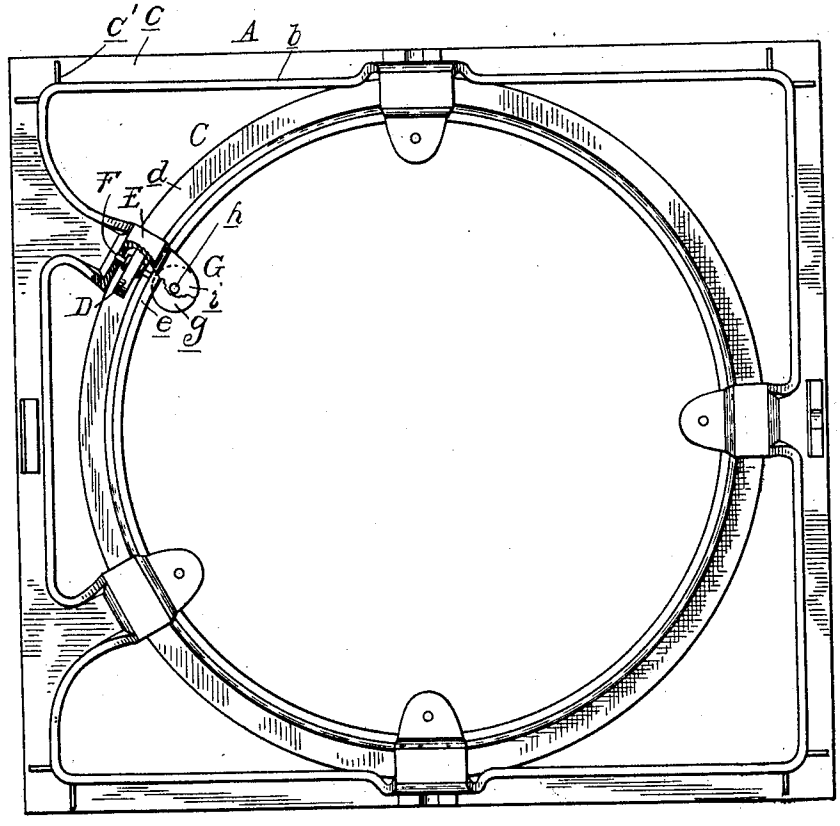


Fig. 2.



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UNITED STATES PATENT OFFICE.

WALTER F. STIMPSON, OF DETROIT, MICHIGAN.

SWIVEL SCALE-BASE.

SPECIFICATION forming part of Letters Patent No. 671,736, dated April 9, 1901.

Application filed September 24, 1900. Serial No. 30,991. (No model.)

To all whom it may concern:

Be it known that I, WALTER F. STIMPSON, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Swivel Scale-Bases, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to the construction of a swiveled base for scales; and it is one object of the invention to obtain a construction in which the elevation of the scale-platform is not materially increased and which permits of the free rotation of said platform to any position desired.

It is the further object to obtain a simple and inexpensive construction to build.

The invention consists in the peculiar construction and arrangement of a seat-frame and a track upon which it is adapted to turn, and, further, in the peculiar construction and arrangement of the antifriction-bearings for said frame upon said track, all as more fully hereinafter described and claimed.

In the drawings, Figure 1 is a vertical cross-section through the swiveled base with a scale-platform supported thereon. Fig. 2 is a plan view of a base with the scale removed.

A is an open-center frame, which is preferably of a form corresponding to the base-frame of the scale which the swiveled base is designed to support. As shown in the drawings, this frame A is of rectangular form and is provided with a depending strengthening-rib *a* and an upwardly-extending rib *b*, the latter extending around the inner edge of the frame. As thus constructed the horizontal portion *c* of said frame or bearing-lugs *c'* thereon are adapted to form a seat for supporting the base-frame B of the scale, while the flange *b* serves to hold said base-frame in position.

C is a second open-center frame arranged beneath the frame A and forming a circular track on which said frame A is adapted to rotate. The frame C preferably consists of a flat portion *d*, having an angle-flange *e* extending along its inner edge and also preferably provided with a plurality of depending lugs *f*, forming feet or supporting-bearings.

D represents antifriction-rolls journaled in the frame A and adapted to travel around upon the horizontal portion *d* of the track. As it is desirable to diminish the height of the seat-frame A as much as possible and as the space between said frame and the track is insufficient to receive the rolls D, the latter are therefore journaled in bearings E, formed by upwardly-extending lugs upon the frame A, which lugs are so arranged as to extend within the scale-base in positions where they will not interfere with the platform-levers. As shown, the lugs E are of an inverted-U-shaped form, and the rolls D are journaled upon pins F, extending through both sides of said lug. In order to connect the frames A and C to each other and also to hold the rolls D from running off the track, retainers G are provided. These may be of any suitable construction adapted to hold the two frames together without interfering with the free rotation of the frame A on the track C. As shown, they consist of rolls *g*, journaled upon vertical pins *h*, secured to lateral extensions *i* of the lugs E. The rolls *g* are adapted to engage with the frame C on the inner edge thereof and beneath the angle-flange *e*.

The construction being as described, it will be readily understood that when the scale-base B is seated upon the frame A it may be freely rotated in either direction, the rolls D traveling around upon the track C. By reason of the fact that the bearing-lugs E extend within the space of the scale-base the seat-flange *c* of the frame A may be dropped to within a short distance from the base, so that the elevation of the scale-platform is but slightly increased.

What I claim as my invention is—

1. A swivel-base for scales comprising two open-center frames, one adapted to form a seat for the scale-base and being substantially rectangular in form and the other forming a circular track, and means for holding said frames together permitting of the free rotation of said seat-frame upon said track.

2. A swivel-base for scales, comprising two open-center frames, one adapted to form a seat for the scale-base being substantially rectangular in form and the other forming a circular track, antifriction-bearings between said seat-frame and track and means for re-

taining the members together without interfering with the free rotation of said seat-frame on said track.

3. A swivel-base for scales comprising an upper member forming a seat for the scale-base, a lower member, and an antifriction-bearing for the one member upon the other extending upward above the plane of the seat.

4. A swivel-base for scales comprising a lower member forming an endless track, an upper member forming a seat for the scale-base, and an antifriction-bearing supporting said upper member upon said track and itself extending upward above the plane of the seat.

5. A swivel-base for scales comprising a lower member forming a circular track, an upper member forming a seat for the scale-base, an antifriction-roll adapted to travel upon said track and a bearing for said roll upon said upper member extending upward above the plane of the seat.

6. A swivel-base for scales comprising a lower member forming a circular track having a laterally-extending flange, an upper member forming a seat for the scale-base, an antifriction-roll adapted to travel upon said track, an upwardly-extending lug on said seat member in which said roll is journaled, and a horizontal roll journaled to an extension of said lug adapted to bear on the side of said track beneath said laterally-extending flange.

7. The combination with a scale, of a swivel-base therefor comprising an upper member forming a seat for the scale-base, a lower member forming a circular track and an antifriction-bearing for the one member upon the other extending upward into the space inclosed by the scale-base and arranged to avoid interference with the mechanism therein.

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

WALTER F. STIMPSON.

Witnesses:
M. B. O'DOGHERTY,
H. C. SMITH.