No. 871,814. PATENTED NOV. 26, 1907.

C. W. NEWTON.

MEASURE.

APPLICATION FILED OCT. 29, 1906.

FIG. 1

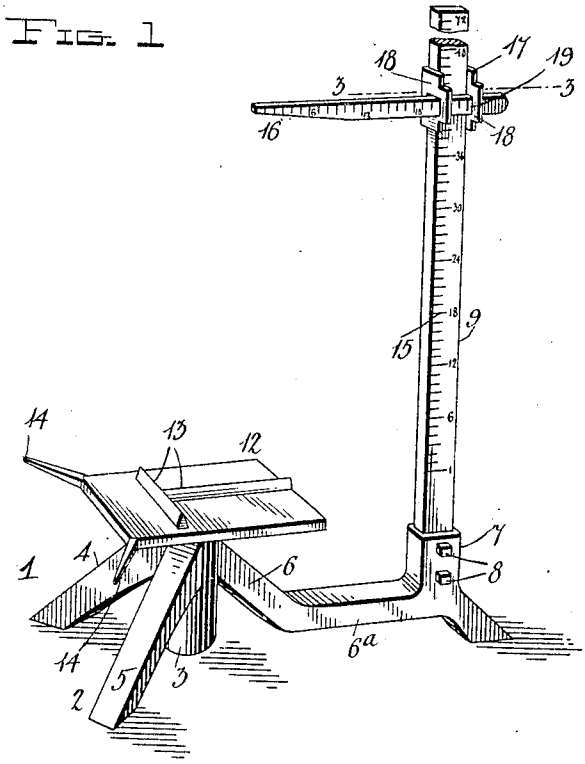


FIG. 2

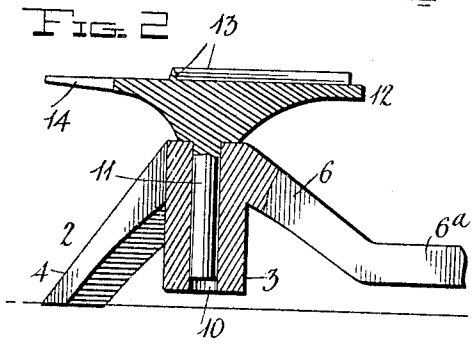


FIG. 3

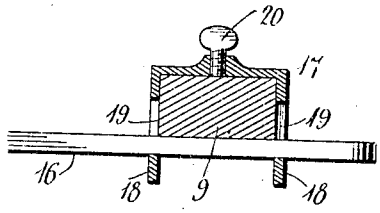
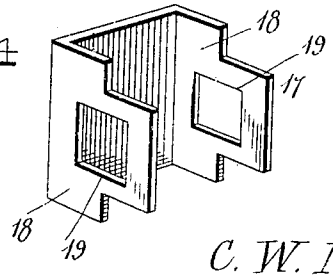


FIG. 4



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES WILLARD NEWTON, OF KANSAS CITY, MISSOURI.

MEASURE.

No. 871,814. Specification of Letters Patent. Patented Nov. 26, 1907.

Application filed October 29, 1906. Serial No. 341,151.

To all whom it may concern:

Be it known that I, CHARLES WILLARD NEWTON, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Measures; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in gages or measuring devices used by artists, tailors, shoemakers and others in taking measurements of the human figure.

The object of the invention is to provide a device of this character which will be simple in construction, durable in use and well adapted for the purposes intended.

With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts hereinafter described and claimed.

In the accompanying drawings,—Figure 1 is a perspective view of my improved gage or measuring device; Fig. 2 is a detail sectional view through the base and platform of the same; Fig. 3 is a detail horizontal sectional view taken on the plane indicated by the line 3—3 in Fig. 1, and Fig. 4 is a detail view of the clamping device for adjustably securing the measuring bars or rods together.

Referring to the drawings by numeral, 1 denotes a gage or measuring device which comprises a base 2, consisting of a cylindrical body portion 3, from which radiate three legs 4, 5 and 6. These legs form a tripod to support the body 3 in a vertical position, and the leg 6 is extended as shown at 6^a, and formed upon its top with a socket 7, in which is bolted or otherwise secured, as at 8, the lower end of an upright measuring bar or rod 9. The cylindrical body 3 is formed with a bore 10, which is adapted to receive the pivot 11 of a platform 12. The latter is of substantially rectangular form and of such size as to receive the feet of a person, longitudinal and transverse ribs or marks 13 being provided upon the top of the same to facilitate a person in centering his feet thereon.

The pivot 11 of the platform is adapted to rotate freely in the bore 10 of the body 3, so that said platform and the person thereon may be swung or rotated in either direction to bring either the front, back or side of the body in alinement with or opposite to the measuring bar or upright 9. At two of the corners of the foot platform 12 are formed pointers 14 which are adapted to register or aline with the extended leg 6 of the base to facilitate the operator in adjusting the platform and the person thereon in the proper position with respect to the said upright 9. The pointers project at an angle to the marks 13 so that when either one of them registers with or is located directly above the leg 6, the person's body will occupy a position between the sides and the front and back relatively to the upright 9. The latter has one or more of its faces graduated in inches or fractions thereof and provided in any other suitable scale as shown at 15, and slidably mounted upon it is a horizontal measuring rod or pointer 16. The latter is also graduated in inches and fractions thereof and has its outer end tapered, as shown. This pointer or bar 16 is adjustably mounted upon the bar or upright 9 by means of a clamp 17, which preferably consists of a three sided slide which surrounds three faces of the bar 9. In its two parallel faces 18 are formed apertures 19, through which the pointer or bar 16 extends and in which it is slidably and adjustably mounted, as clearly shown in Fig. 3 of the drawings. The pointer or bar 16 is secured in an adjusted position and the clamp 17 is adjustably secured upon the upright or bar 9 by means of a set screw 20 which is inserted in a threaded opening in the connecting portion of the clamp 17 and is adapted to bear against one face of the upright or bar 9, as shown.

In using the device, the person to be measured steps upon the platform 12 and the pointer or bar 16 is adjusted so that its tapered end is placed lightly against the body and then secured by the set screw 20. The measurements on the two bars are then noted and the bar 16 is again adjusted at a different elevation and the measurements are noted. After the measurements of the front of the body are taken, the platform 12 is revolved so that the back sides or other measurements may be recorded as desired. It will be seen that by making a diagram from these records, the height, thickness and the curves or contour of the body may be shown.

From the foregoing description taken in connection with the accompanying drawings, the construction, operation and advan-

tages of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined by the appended claims.

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

1. A gage or measure of the character described, comprising a base, a revolubly mounted platform thereon, a graduated upright upon said base, a clamp slidably mounted upon said upright, a graduated pointer or bar slidable in said clamp at right angles to said upright, and a set screw for causing the clamp to hold the pointer in its vertical and laterally adjusted positions.

2. A gage or measure of the character described, comprising a base consisting of an upright body formed with a vertical bore and with radiating legs, one of said legs being extended and formed with a socket, a graduated upright secured in said socket, a foot platform having a depending pivot mounted to rotate in the bore of said body, a clamp slidable upon said upright, and a graduated pointer or bar slidable in said clamp.

3. A gage or measure of the character described, comprising a base consisting of an upright body formed with a vertical bore and with radiating legs, one of said legs being extended and formed with a socket, a graduated upright secured in said socket, a foot platform having a depending pivot mounted to rotate in the bore of said body, a pointer upon said platform, a three sided clamp surrounding said upright and slidable thereon, a graduated pointer or bar slidable in the apertured parallel sides of said clamp, and a set screw in said clamp adapted to engage said upright, substantially as shown and described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES WILLARD NEWTON.

Witnesses:
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F. HOUSTON.