No. 847,996. PATENTED MAR. 26, 1907.

E. G. AGNELL.

TAILOR'S MEASURING WHEEL.

APPLICATION FILED JUNE 7, 1906.

Fig. 1

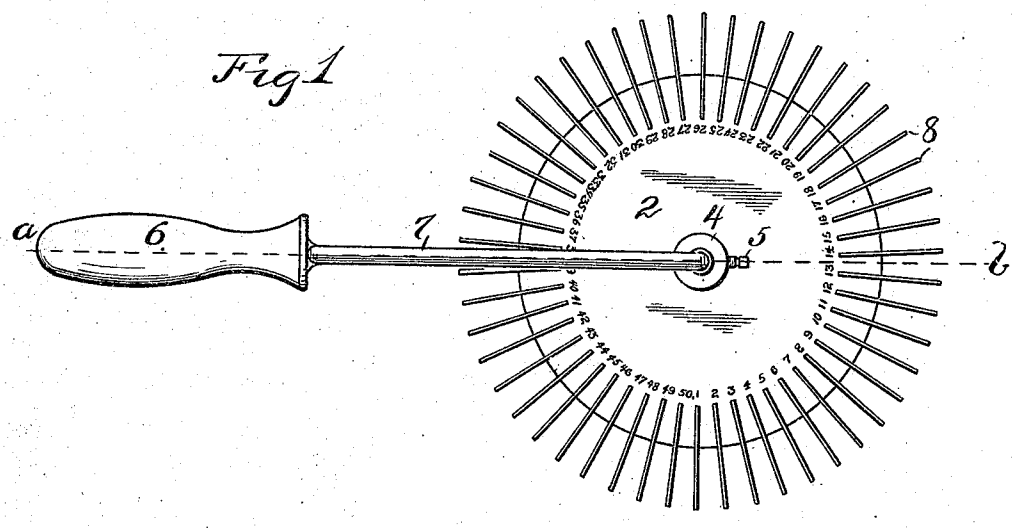


Fig. 2

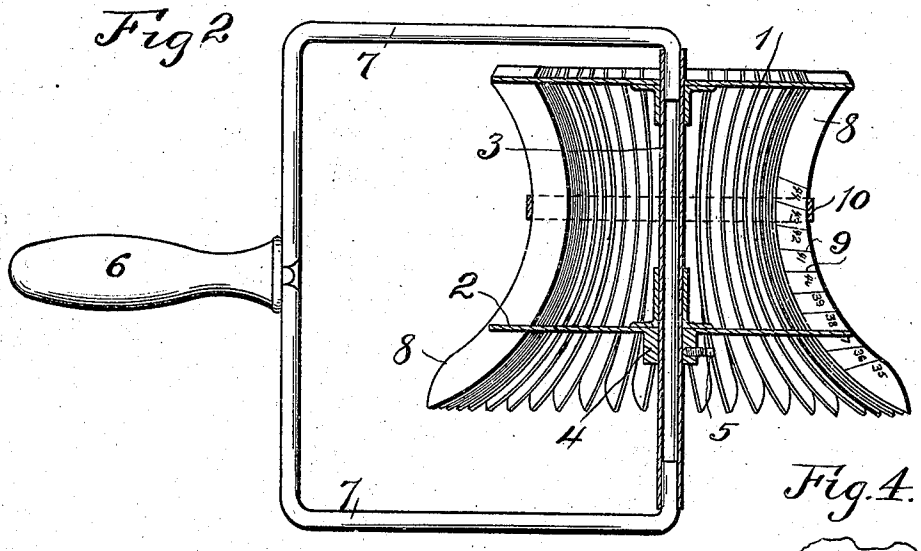


Fig. 4.

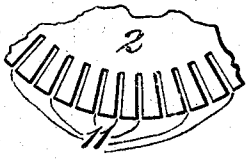
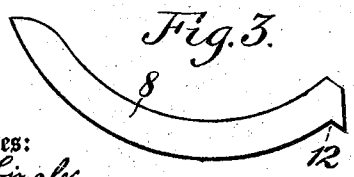


Fig. 3.



Witnesses:
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By His Attorney Warren D. House

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ERNEST G. AGNELL, OF CHANUTE, KANSAS

TAILOR'S MEASURING-WHEEL.

No. 847,996. Specification of Letters Patent. Patented March 26, 1907.

Application filed June 7 1906. Serial No. 320 594.

To all whom it may concern:

Be it known that I, ERNEST G. AGNELL, a citizen of the United States, residing at Chanute, in the county of Neosho and State of Kansas, have invented certain new and useful Improvements in Tailors' Measuring-Wheels, of which the following is a specification.

My invention relates to improvements in tailors' measuring-wheels.

The object of my invention is to provide a measuring device particularly adapted for tailors' or dressmakers' use by means of which in making the garments the goods prior to cutting may be readily and exactly measured and marked, means being provided by which the device may be quickly adjusted for marking garments of different sizes.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawings, illustrative of my invention, Figure 1 is a side elevation view. Fig. 2 is partly a plan view, the supporting-plates and tubular shaft being shown in horizontal section. Fig. 3 is a side view of one of the marking-plates. Fig. 4 is a side view of a part of one of the supporting-plates, showing the slots 11 in which the marking-plates are mounted.

Similar characters of reference denote similar parts.

In its preferable form the measuring-wheel comprises two disk-shaped supporting-plates 1 and 2, mounted centrally on a transverse tubular shaft 3, the plate 1 being fixed and the plate 2 adjustable toward and from the plate 1, the plate 2 having a hub 4, provided with a transverse screw-threaded hole in which is mounted a set-screw 5, which serves as a releasable means for locking the plate 2 in the position in which it may be adjusted. The shaft 3 is rotatively mounted on a suitable support comprising, preferably, a handle 6, having two parallel arms 7, the ends of the arms being inwardly turned and inserted, respectively, in opposite ends of the tubular shaft 3.

The supporting-plates 1 and 2 are provided each with a series of peripheral radial slots 11, disposed equidistant apart and having mounted therein a plurality of marking-plates 8, preferably arcuate in form, the inner edges being convex and provided adjacent one set of ends with notches 12, one of which is best shown in Fig. 3, to receive the plate 1, which notches prevent lengthwise movement of the plates 8 relative to the plate 1, yet permitting the said plates to swing inwardly and outwardly in a pivotal manner on the plate 1 when the plate 2 is moved toward or from the plate 1. At least one of the plates 8 is provided with a longitudinal series of transverse graduations 9, having adjacent thereto suitable distinguishing characters—as, for instance, numerals denoting different bust measures—said graduations being disposed so as to register with the plate 2 when it is adjusted lengthwise on the shaft 3 to different positions.

Expansible holding means are provided by which the plates 8 are retained in the slots in the plates 1 and 2. This holding means comprises, preferably, an elastic or resilient band 10, embracing the outer edges of the plates 8. The ends of the plates 8 adjacent the plate 2 are preferably pointed, so as to enter the goods to be measured. Means are provided by which the plates 8 may be distinguished, such means comprising, preferably, a series of consecutive numerals disposed on the plate 2 adjacent the plates 8, respectively. For instance, if fifty plates are employed the numerals will begin with "1" and run consecutively to and including the numeral "50."

In operating the invention the set-screw 5 is loosened and the plate 2 adjusted lengthwise on the shaft 3 to a position in which the plate will register with the graduation having adjacent thereto the numeral denoting the bust measure of the person for whom the garment is designed—as, for instance, the graduation having the numeral "37" adjacent thereto, as shown in Fig. 2. The set-screw 5 is then tightened, and the point of the plate 8, having adjacent thereto on the plate 2 the numeral "1," is placed against the goods and the wheel is rotated until the marking-plate, having adjacent the proper numeral on the plate 2, is upon the cloth, and the distance measured off will be the proper distance, for instance, required for the length of a sleeve for a person having the bust measure thirty-seven. A prepared table giving the number of spaces to be set off for each portion of the garment is employed to guide the operator as to how many revolutions or parts of a revolution are to be made. Then by adjusting the plate 2 to the required bust measure and stepping off the number of spaces required for any certain part of the garment will properly measure the goods for that particu-

lar part at a given bust measurement, there being, as is well known, a certain relation between the bust measurement and the other measurements employed in making the garments.

My invention may be modified in many ways within the scope of the appended claims without departing from its spirit.

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

1. A measuring device comprising a support, a shaft rotatively mounted on said support, two plates mounted on said shaft one plate being adjustable toward and from the other, and each plate having a series of peripheral radial slots registering with corresponding slots in the opposite plate, and a plurality of arcuate marking-plates mounted respectively in the slots of said plates, with their convex edges disposed inward, the arcuate plates being slidable in the notches of one plate and fixed against lengthwise movement in the slots of the other plate.

2. A measuring device comprising a support, a shaft rotatively mounted on said support, two plates mounted on said shaft one plate being adjustable toward and from the other, and each plate having a series of peripheral radial slots registering with corresponding slots in the other plate, and a plurality of marking-plates having convex inner edges and mounted respectively in said slots, said marking-plates being slidable lengthwise in one plate and not slidable in the other, one of the marking-plates having a series of graduations disposed so as to consecutively register with the said adjustable plate when said adjustable plate is moved lengthwise of said plates.

3. A measuring device comprising a support, a shaft rotative on said support, two plates mounted on said shaft one plate being adjustable toward and from the other plate, and each plate having a series of peripheral radial slots disposed opposite the slots of the other plate, and a plurality of marking-plates having inner convex edges and mounted respectively in said slots, said plates each being slidable relative to one plate and pivoted relative to the other plate, and means for holding said marking-plates in said slots.

4. A measuring device comprising a support, a shaft rotative on said support, two plates having radial peripheral slots, said plates being mounted on and rotative with said shaft and adjustable one toward and from the other, a plurality of marking-plates mounted respectively in said slots, said marking-plates having inner convex edges, and each marking-plate being slidable in the slots of one plate and pivoted relative to the other plate, and expansible means for retaining the marking-plates in said slots.

5. A measuring device comprising a support, a shaft rotative on said support, two plates having radial, peripheral slots, said plates being mounted on and rotative with said shaft and adjustable one toward and from the other, and a plurality of marking-plates mounted respectively in said slots, said marking-plates being convex on their inner edges, and each marking-plate being slidable in one plate and pivoted in the other, and resilient means for retaining the marking-plates in said slots.

6. A measuring device comprising a handle, a shaft rotatable on said handle, two supporting-plates one fixed to the shaft, the other plate being adjustable toward and from the other on said shaft, the adjustable plate having a plurality of radial peripheral slots, and a plurality of marking-plates convex in their inner edges, pivotally connected to the fixed plate and slidable respectively in said slots, and means for releasably securing the adjustable supporting-plate on the shaft in the position to which it may be adjusted.

7. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates mounted on said shaft, one plate being adjustable toward and from the other and provided with a plurality of radial slots, releasable means for locking the adjustable plate in the position to which it may be adjusted, and a plurality of marking-plates pivotally connected to one supporting-plate and disposed in said slots and having convex inner edges.

8. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates mounted on said shaft, one plate being adjustable toward and from the other and provided with a plurality of radial slots circularly arranged, marking-plates pivoted to one plate and slidable in said slots, one of the marking-plates having a longitudinal row of transverse graduations adapted to register with the adjustable supporting-plate.

9. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates mounted on said shaft, one plate being fixed on the shaft and the other plate having a series of circularly-arranged radial slots, and adjustable toward and from the other plate, releasable means for locking the adjustable plate in the position to which it may be adjusted, a plurality of marking-plates pivoted to the fixed plate and slidably mounted respectively in said slots of the other plate, and expansible means for retaining said marking-plates in said slots.

10. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates mounted on said shaft, one plate being fixed on the shaft and the other plate having a series of circularly-arranged slots, said slotted plate being adjustable toward and from the fixed plate, releasable

means for locking the adjustable plate in position, and a plurality of marking-plates pivoted respectively to the fixed plate and slidable in the slots of the adjustable plate, one of said marking-plates having a longitudinal row of transverse graduations adapted to register with the adjustable plate.

11. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates mounted on said shaft, one plate being adjustable toward and from the other which is fixed on the shaft, the adjustable plate having a circular series of radial slots, and a plurality of marking-plates pivoted to the fixed plate and disposed in the slots of the other plate, one of said marking-plates having a longitudinal series of transverse graduations adapted to register with the adjustable plate, and one of the supporting-plates having a circular series of distinguishing characters disposed respectively adjacent said marking-plates.

12. A measuring device comprising a support, a shaft rotative on said support, two plates mounted on said shaft, one plate being fixed on said shaft and the other plate being adjustable toward and from the fixed plate and having a circular series of radial slots, and a plurality of marking-plates having convex inner edges and pivoted to the fixed plate and slidable in said slots, one of the marking-plates having a longitudinal series of transverse graduations adapted to register with the adjustable plate, means being provided for distinguishing said marking-plates.

13. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates mounted on said shaft, one plate being fixed on said shaft and the other plate being adjustable toward and from the fixed plate and having a circular series of radial slots, and a plurality of marking-plates pivoted to the fixed plate and slidable in the slots of the other plate and provided with convex inner edges, one of the marking-plates having a longitudinal series of transverse graduations adapted to register with the adjustable plate, and having also characters distinguishing said graduations respectively, one of said supporting-plates having characters disposed respectively adjacent to and distinguishing said marking-plates.

14. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates rotative on said shaft, one plate being fixed on the shaft, the other plate being adjustable toward and from the fixed plate and having a circular series of radial slots, a plurality of marking-plates having convex inner edges and pivoted to the fixed plate and slidable in said slots, one of the marking-plates having a longitudinal series of transverse graduations adapted to register with the adjustable plate, one of the supporting-plates having consecutive numerals adjacent the marking-plates respectively, and a resilient band embracing the outer edges of said marking-plates.

15. A measuring device comprising a handle, a shaft rotative on said handle, two supporting-plates mounted on and rotatable with said shaft, one of the plates being fixed on said shaft and the other plate being adjustable toward and from the fixed plate, said adjustable plate having a circular series of radial slots, a plurality of arcuate marking-plates pivoted to the fixed plate and slidable in said slots of the other plate, the inner edges of said marking-plates being convex, one of said marking-plates having a longitudinal series of transverse graduations, characters distinguishing said graduations, one supporting-plate having consecutive numerals adjacent said marking-plates respectively, and expansible means for holding said marking-plates in said slots.

16. A measuring device comprising a support, a shaft rotative on said support, two supporting-plates mounted on said shaft and provided each with a plurality of peripheral radial slots, one plate being fixed on said shaft and the other plate being adjustable toward and from the fixed plate, a plurality of arcuate marking-plates having their inner edges convex and mounted respectively in said slots of said supporting-plates, the inner edges of the marking-plates being notched to receive the fixed plate to prevent lengthwise movement of the marking-plates in said plate yet permitting said marking-plates to swing, one of said marking-plates having a longitudinal series of transverse graduations having adjacent thereto suitable distinguishing characters and adapted to register with the adjustable plate, one of said supporting-plates having a circular series of consecutive numerals adjacent respectively said marking-plates, and means for retaining said marking-plates in said slots.

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

ERNEST G. AGNELL.

Witnesses:
B. S. JUSTICE,
JAMES W. FINLEY.