No. 765,837. PATENTED JULY 26, 1904.

P. O. HIRSCH.

TAILOR'S MEASURE.

APPLICATION FILED DEC. 3, 1903.

NO MODEL.

Fig. 1.

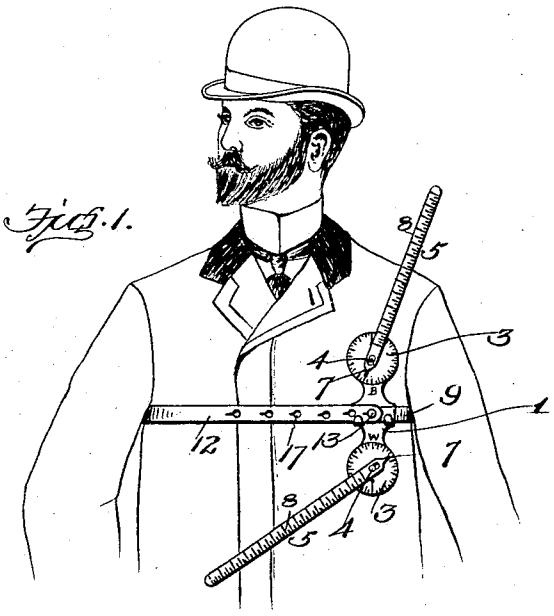


Fig. 2.

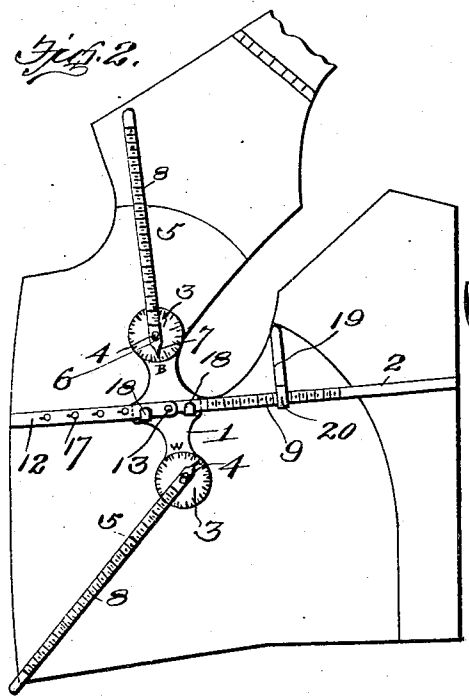
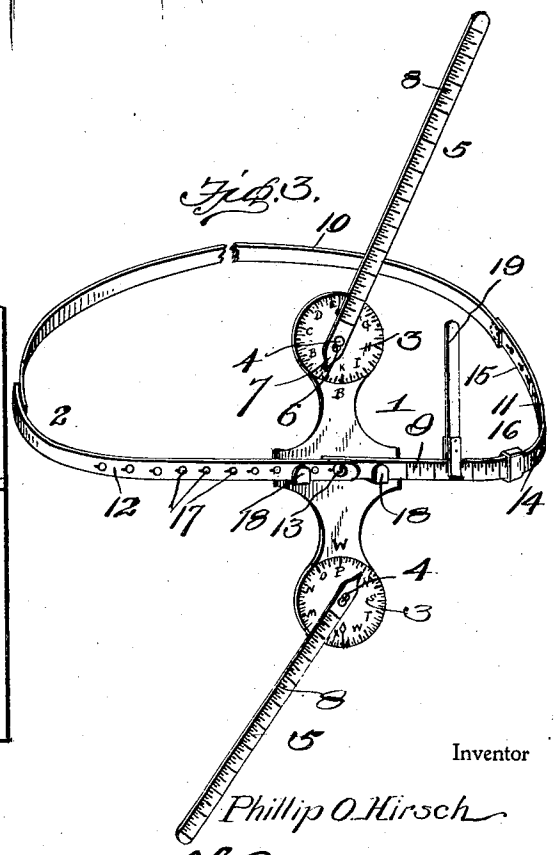


Fig. 3.



Witnesses

C. E. Hunt.

O. Allbritton

Inventor

Phillip O. Hirsch

By H. B. Wilson

Attorney

No. 765,837. Patented July 26, 1904.

UNITED STATES PATENT OFFICE.

PHILLIP O. HIRSCH, OF NORFOLK, NEBRASKA.

TAILOR'S MEASURE.

SPECIFICATION forming part of Letters Patent No. 765,837, dated July 26, 1904.

Application filed December 3, 1903. Serial No. 183,604. (No model.)

To all whom it may concern:

Be it known that I, PHILLIP O. HIRSCH, a citizen of the United States, residing at Norfolk, in the county of Madison and State of Nebraska, have invented certain new and useful Improvements in Tailors' 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 measuring instruments, and more particularly to tailors' measures.

The object of my invention is to provide a simple, durable, reliable, and comparatively inexpensive device of this character by means of which the measurements necessary for drafting patterns of coats or other garments covering the upper part of the body may be quickly and accurately taken and then transferred to a flat surface or to the pattern in a correct, accurate, and reliable manner.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a front view of the bust of a man with my improved measuring device in position. Fig. 2 is a plan view of a portion of a pattern with the measuring device applied thereto. Fig. 3 is a perspective view of the device or apparatus detached.

In the embodiment of my invention as illustrated in the drawings the numeral 1 denotes a plate or body portion made of celluloid, steel, or other material having, preferably, flexible and resilient qualities and adapted to be held adjacent to the arm upon either side of the breast of the person being measured by an adjustable and elastic connection or band 2, which is passed around the body immediately below the arms. The said body portion of the device has at each of its ends protractor-dials 3, which may be graduated in any suitable manner, but, preferably, as shown, and each of said dials has at its center a headed pivot-stud 4, with which a flexible measuring-rule 5, preferably of celluloid, is detachably connected by forming a key-shaped opening 6 adjacent to one of its ends. The said measuring-rules are thus pivoted upon the dials and have their short ends pointed to form indicator-fingers 7, which coact with the dials to permit the rules 5 to serve as protractor-blades, as hereinafter explained. The long ends 8 of the rules 5 are provided with the graduations of a suitable measuring-scale. The connection 2 comprises a flexible rule 9, a strip or band of elastic material 10, and two adjusting-straps 11 and 12, of leather or other suitable material. The rule 9 is preferably made of celluloid and is graduated with a suitable scale. It has one of its ends pivoted upon a headed stud 13, secured to the center of the body portion 1, and its opposite end is provided with a headed stud 14, which is adapted to be engaged by one of a series of apertures or openings 15 formed in the adjusting-strap 11. Said strap has at one end a guide-loop 16, through which the rule 9 is passed, and its opposite end is sewed or otherwise secured to one end of the elastic 10. The strap 12 has one of its ends similarly secured to the opposite end of the elastic band and is formed with a series of apertures or openings 17, one of which is adapted to engage the headed stud 13 in order to adjustably secure the device upon the body of the person being measured. Secured to the body portion or plate 1 upon each side of its central pivot-stud 13 are stop-catches 18, which are adapted to engage the rule 9 and the strap 12 to hold the body portion or plate in its vertical position, as seen in Fig. 1. Coacting with the rule 9 is a measuring-strip 19, made, preferably, of celluloid and provided with spring-jaws 20 at one of its ends for detachably securing it at any desired point upon the said rule 9.

The manner of using my invention and its advantages will be readily understood upon reference to Figs. 1 and 2 of the drawings. It will be seen that when the apparatus is attached to the body of the person whose measure is to be taken the flexible rule or rules 5 are swung upon their pivots to the proper angles and the various necessary measurements

are made and noted, the angles of the rules, as indicated by their pointers upon the dials, being also noted. It will be understood that the upper dial and its coacting rule 5 are used for taking the suitable measurements of the neck, shoulders, back, &c., and the lower dial and its coacting rule for taking suitable measurements of the waist and skirt of the garment. The measuring-strip 19 is also adjusted upon the rule 9 to locate a desired point or points and its adjusted position or positions noted. When it is desired to draft the garment pattern, the device is laid out flat upon the surface of the pattern or other flat surface, as shown in Fig. 2, and rules 5 are swung to the angles they assumed when the measurements were noted. The desired points are then marked upon the pattern or other flat surface, as will be readily understood.

It is thus seen that by means of my improved device the exact distance and also the angle or direction of measurement from one point to another on the body may be readily obtained and then located quickly and accurately on the pattern or other flat surface.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation 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 this invention.

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

1. A measure of the class described, comprising a band to be placed around the body of the person to be measured, a device on the said band and having protractor-dials above and below the band, and rules pivotally connected to and coacting with the protractor-dials.

2. A measure of the class described, comprising an elastic band to be placed around the body of the person to be measured, a device on the said band, and having protractor-dials above and below the band, and rules pivotally connected to and coacting with the protractor-dials.

3. In a tailor's measure, the combination of a plate having protractor-dials at each end, measuring-rules pivotally connected to said dials and coacting therewith, a measuring-rule pivotally connected to said plate, a measuring-strip adjustably attached to the latter-mentioned measuring-rule, and an adjustable connection between the latter-mentioned measuring-rule and said plate adapted to be passed about the body of the person being measured to hold said plate in position, substantially as described.

4. In a tailor's measure, the combination of a measuring-rule adapted to be passed around the body of the person to be measured, and a measuring-strip having spring-jaws for detachably securing said strip upon said rule in any adjusted position, substantially as described.

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

PHILLIP O. HIRSCH.

Witnesses:
GE. DUDLEY,
H. R. WOODALL.