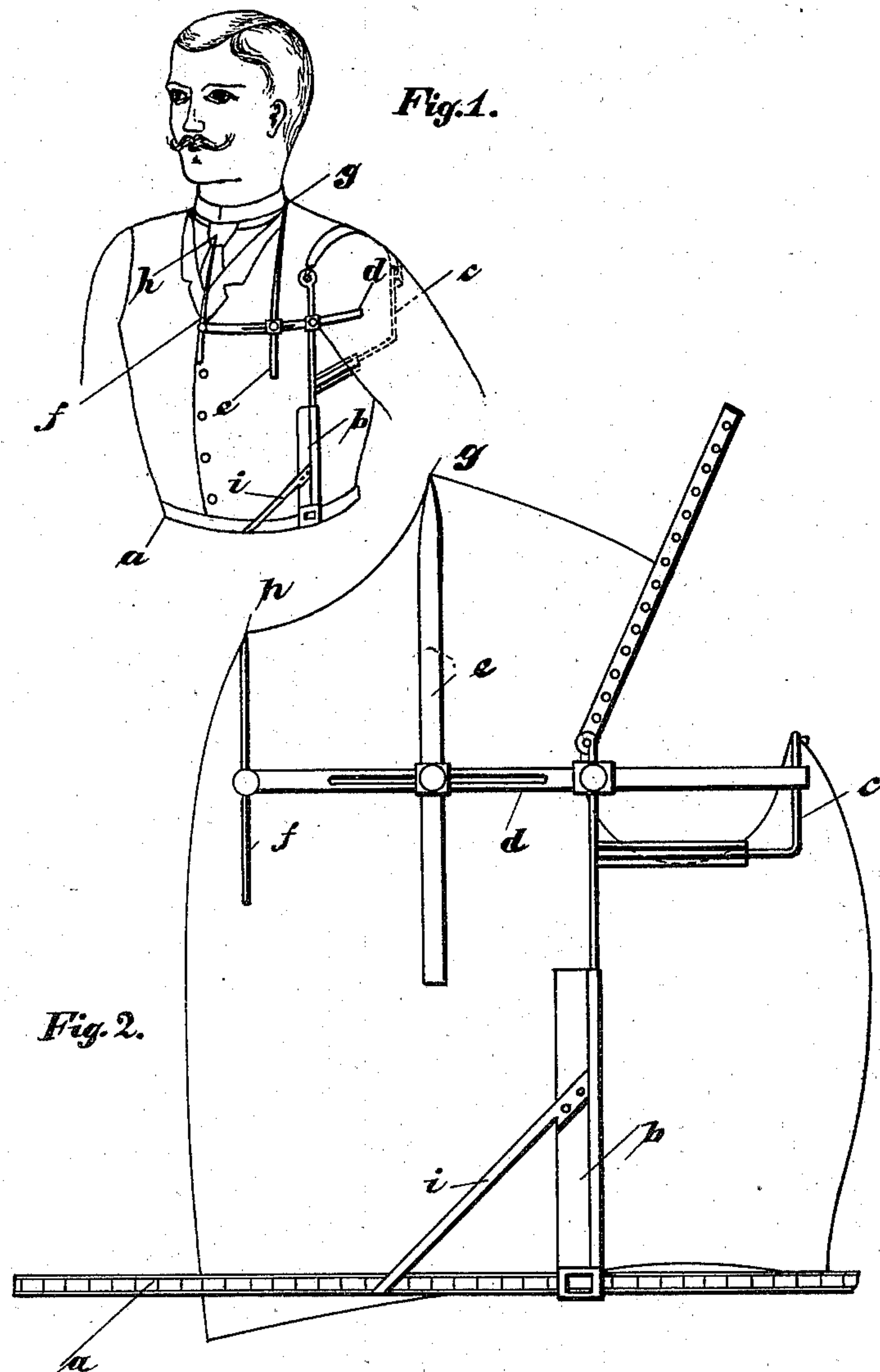


(No Model.)

F. SCHINDLER.
TAILOR'S MEASURE.

No. 559,045.

Patented Apr. 28, 1896.



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANZ SCHINDLER, OF HABELSCHWERDT, GERMANY,

TAILOR'S MEASURE.

SPECIFICATION forming part of Letters Patent No. 559,045, dated April 28, 1896.

Application filed October 17, 1895. Serial No. 566,021. (No model.)

To all whom it may concern:

Be it known that I, FRANZ SCHINDLER, merchant, residing at Habelschwerdt, in the Province of Silesia, Kingdom of Prussia, German Empire, have invented new and useful Improvements in Apparatus for Taking Measurements of the Human Body for Patterns for Garments, of which the following is a specification.

10 The subject of this invention is an apparatus for taking measurements of the human body, and at the same time fixing the measurements required for cutting patterns of garments.

15 The main features of this invention comprise an apparatus made of separate elements or members, which are placed upon those parts of the body from which the measurements are to be taken.

20 All the parts of the apparatus are arranged in such a manner that they are adjustable and fixable, so that all that is necessary is to lay the apparatus, after it has been taken away from the body, upon a surface of paper or cloth, to which the points and measurements taken from the body can then at once be transferred. While hitherto it has been left to the judgment of the cutter to shape the cutting according to the measurements taken with a tape-measure, apparatus according to this invention not only enables the measurements to be fixed by figures, but also in their proper places, so that the cut of the garment must under all circumstances be correct and sure.

35 In all systems of measuring the measurement of the "half upper width" forms the base. After this measurement has been determined a point is always fixed which is one-seventh of the half upper width distant from the point of the uppermost cervical vertebra. This is the point where the seam between the collar and the back part is to lie. Upon the correct position of this point the correct fit of the article of clothing depends.

40 Referring to the drawings, Figure 1 shows the apparatus applied to a body, and Fig. 2 to a paper or cloth surface.

45 a denotes a tape-measure, which serves as a base-line for this apparatus. This tape a is placed upon that part of the body where the measurement for the "lower width" is to

be taken. At a right angle to this base-line a part b is fitted horizontally movable on same, and also vertically adjustable in a tube 55 and bearing at its upper portion a turnable bent part c . This turnable part c , which forms a right angle with the part b , passes under the armpit with its vertical side. The horizontal side of this bent part is adjustable 60 in a tube and may be shortened or lengthened, as required. When this side part is placed against the upper arm of the body, this fixes the thickness of the arm on the width of the armhole.

65 The correct working of the whole apparatus depends upon the correct position of the part b with regard to the line of base. For this reason the part b is provided with an angle-bar i , which is laid against the base-line a , so that the part b may form exactly a right angle with the base-line a . The above-mentioned bent part c serves for fixing all the measurements which are necessary for forming the sleeve-hole—namely, the projection 75 of the armhole, the depth of the armhole, and the point of the side seam in the circumference of the armhole. Above the part c there is, furthermore, joined to part b a curved bar d , which is horizontally adjustable. This bar 80 d carries two adjustable bars e and f for fixing exactly the middle h of the neck circumference and the point g in the neck circumference for the shoulder-seam. In conjunction with these two measurements the before-mentioned one-seventh of the half upper width exactly determines the form of the neck-hole. Part e is vertically and horizontally adjustable on bar d and part f vertically. The curved bar d , as well as the parts carried by 90 it for determining the neck measurements, are flexible and are adjusted in such a manner that the points of these two members e and f actually touch points g and h before mentioned, so that thereby an exact idea is 95 produced of the carriage of the body. (See Fig. 1.) If a person carries himself stooping forward, the two points g and h will be in a lower position, whereas in the opposite case, if a person carries himself upright, these top 100 parts will become correspondingly longer and the points be in a higher position. By the apparatus the points required for the half-circumference are securely fixed.

When the apparatus is exactly adjusted, it is taken off, and by turning the part *c* all the points fixed are brought into one plane. The apparatus is laid upon the paper or cloth surface so that part *b*, band *c*, and terminal points *g* and *h* of the two bars *e* and *f* are lying flat upon the surface. After this the measurements for the armhole and for the neck circumference may, without more ado, be transferred onto the surface. (See Fig. 2.)

The apparatus shown in the drawings may be provided with other parts to serve for fixing the other measurements required for the width of the back and length of the waist, as will be understood.

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

A measuring apparatus for tailors comprising a tape-measure serving as a base-line, a part *b* fitted horizontally movable on said tape-measure and vertically adjustable in a tube, and arranged at a right angle to the base-line, said part *b* carrying at the height of the armhole a turnable part *c*, both parts forming a right angle a horizontally-adjustable curved bar *d*, joined to part *b* and carrying flexible vertically-adjustable bars *e* and *f* for the purpose set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

FRANZ SCHINDLER.

Witnesses:

EWALD BÖEHM,

ERNST KATZ.