

No. 745,841.

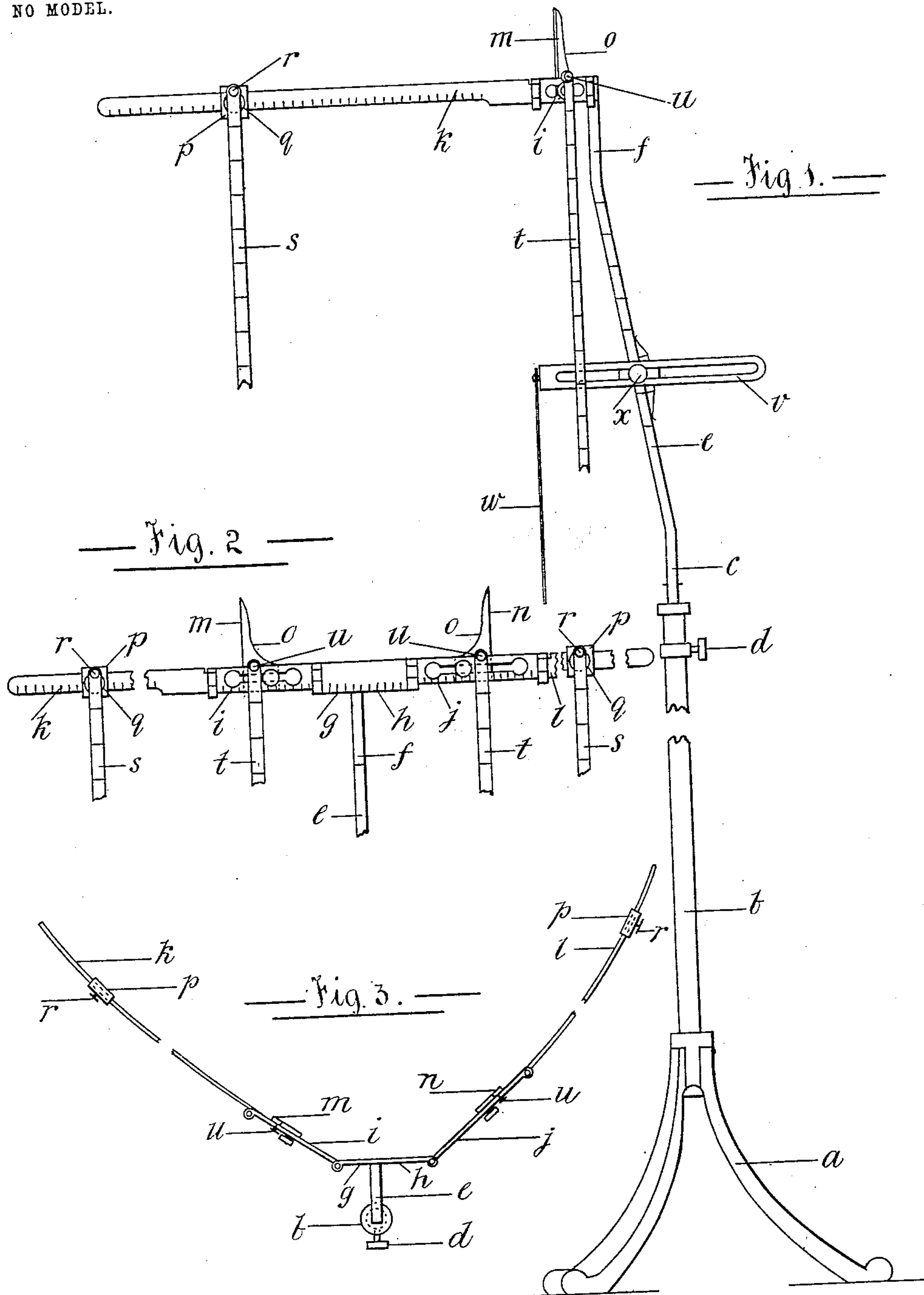
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H. W. HILDER.

APPLIANCE FOR TAKING MEASUREMENTS FOR GARMENTS.

APPLICATION FILED JAN. 12, 1903.

NO MODEL.



Witnesses:-

Jonas Watson
Harry Parker.

Inventor

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UNITED STATES PATENT OFFICE.

HENRY WILLIAM HILDER, OF BRIGHTON, ENGLAND.

APPLIANCE FOR TAKING MEASUREMENTS FOR GARMENTS.

SPECIFICATION forming part of Letters Patent No. 745,841, dated December 1, 1903.

Application filed January 12, 1903. Serial No. 138,753. (No model.)

To all whom it may concern:

Be it known that I, HENRY WILLIAM HILDER, a subject of the King of the United Kingdom of Great Britain and Ireland, residing at 5 14 Trafalgar street, Brighton, in the county of Sussex, England, have invented new and useful Improvements in Appliances for Taking Measurements for Garments, of which the following is a specification.

10 This invention relates to improvements in appliances for taking measurements for garments, the object being to provide a definite base from which all the required dimensions can be ascertained directly or by triangulation in such a manner that "trying on" is rendered quite unnecessary and at the same time a perfect fit insured.

In carrying my invention into effect I proceed in or in about the following manner, making reference to the accompanying drawings, wherein—

Figure 1 is a side view, Fig. 2 a front view, and Fig. 3 a plan, of my improved appliance for the above-mentioned purpose.

25 Upstanding from a suitable foot *a* I provide a tubular support *b*, in which is free to slide up and down a rod *c*, suitable means, such as a tightening-screw *d*, being provided for keeping the rod *c* at the required height in the support *b*. The rod *c* is somewhat inclined at its upper portion, as at *e*, the extremity *f* being again made vertical. At the top of the rod *c e f* is a cross-piece, one end, *g*, of which is preferably made shorter than 35 the other end, *h*. To *g* is hinged a slotted plate *i*, and to *h* is hinged another and longer slotted plate *j*. To the outer ends, respectively, of *i* and *j* are hinged the somewhat-curved arms *k* and *l*, *l* being preferably somewhat shorter than *k*. In the slots of the plates *i* and *j* are free to run upstanding arms *m* and *n*, each having a thumb-screw or other means for retaining the arms *m* and *n* at any required position in the slotted plates *i* and 45 *j*. The opposing edges of the arms *m* and *n* are curved, as at *o*.

On the curved arms *k* and *l* are free to run to and fro the runners *p*, having tightening-screws *q* to keep them in place and also set-screws *r*, with their centers in line with the top of the arms *k* and *l*, from which set-screws hang freely the tape-measures *s*. A similar

tape-measure *t* hangs freely from set-screws *u*, provided on the upright arms *m* and *n*, and having their centers level with the tops of 55 the slotted plates *i* and *j*, which are level with the tops of *k* and *l*.

Free to slide up and down the inclined part *e* of the rod *c e f* is a slotted plate *v*, having at its inner end a freely-suspended tape- 60 measure *w*, means being provided at *x* for keeping the slotted plate *v* at the required height on the part *e* and for keeping the plate *v* with its inner end at any required distance from part *e* of the rod *c e f*.

The rod *c e f* is graduated to show inches or other units of length from the cross-piece *g h* downward, and the parts *g i k* and *h j l* are also divided into units of length counting outward toward the ends of the arms *k* and *l*. 70

The appliance has its parts so assembled together that the arms *k* and *l* and the parts to which they are hinged shall have their upper edges horizontal.

In use the appliance is stood as near as possible to the side of the person who is to be measured and the rod *c e f* raised until the cross-piece *g h* is under the person's armpit. The upstanding arms *m* and *n* are then brought up to the front and back of the person's arm and tightened up. The curved arms *k* and *l* are then pressed against the person's chest and back and the runners *p* placed and tightened at the center of the chest and back. The slotted plate *v* is then raised and 85 pushed in according to the depression of the person's side. The appliance having been thus adjusted, the points from which are suspended the tape-measures *s*, *t*, and *w* form fixed data from which can be taken any di- 90 mension, direct or by triangulation.

It will be observed that the top edge of the parts *g h i j k l* forms a base to which all dimensions can be referred.

What I claim as my invention, and desire 95 to secure by Letters Patent, is—

In an appliance for taking measurements for garments the combination of a foot; a tubular support upstanding from the said foot; a partly-inclined rod free to slide up and down 100 in the said support; means for retaining the rod in position; a slotted plate with means for adjusting it vertically or horizontally on the inclined part of the said rod; a tape-

measure hanging freely from one end of the
said rod; a graduated cross-piece at the upper
end of the said rod; a graduated slotted plate
hinged to one end of the cross-piece; a grad-
5 uated slotted plate hinged to the other end
of the cross-piece; a graduated curved arm
hinged to the outer end of one of the slotted
plates; a graduated curved arm hinged to
the outer end of the other slotted plate; up-
10 standing arms retainable at any part of the
slotted plates; tape-measures hanging freely
from set-screws on the said arms; runners

free to move on the curved arms and having
means for retaining them in position thereon;
and tape-measures hanging freely from set- 15
screws on the said runners, substantially as
hereinbefore described.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

HENRY WILLIAM HILDER.

Witnesses:

ALBERT BURGESS,
EVELYN BRINDLEY.