

G. E. TIFFANY.

Tailors' Device for Laying out Garments.

No. 164,343.

Patented June 8, 1875.

Fig. 1.

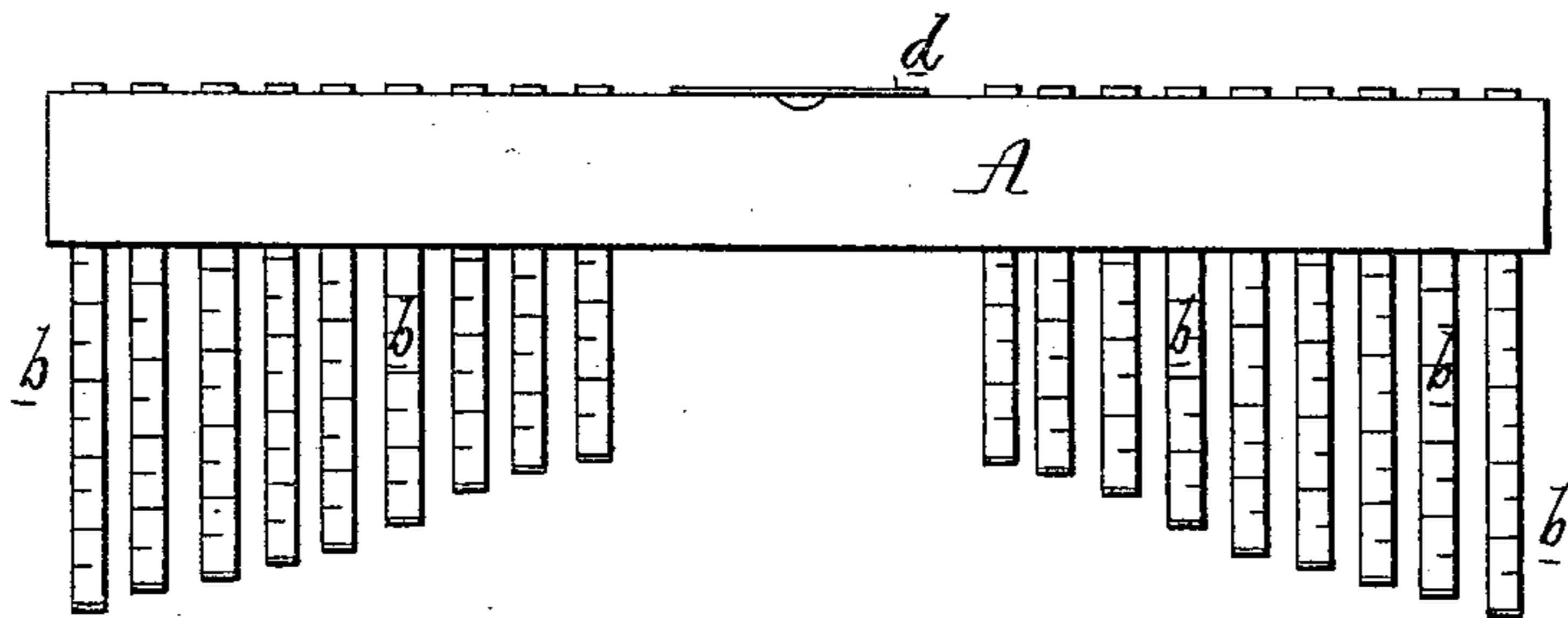


Fig. 2.

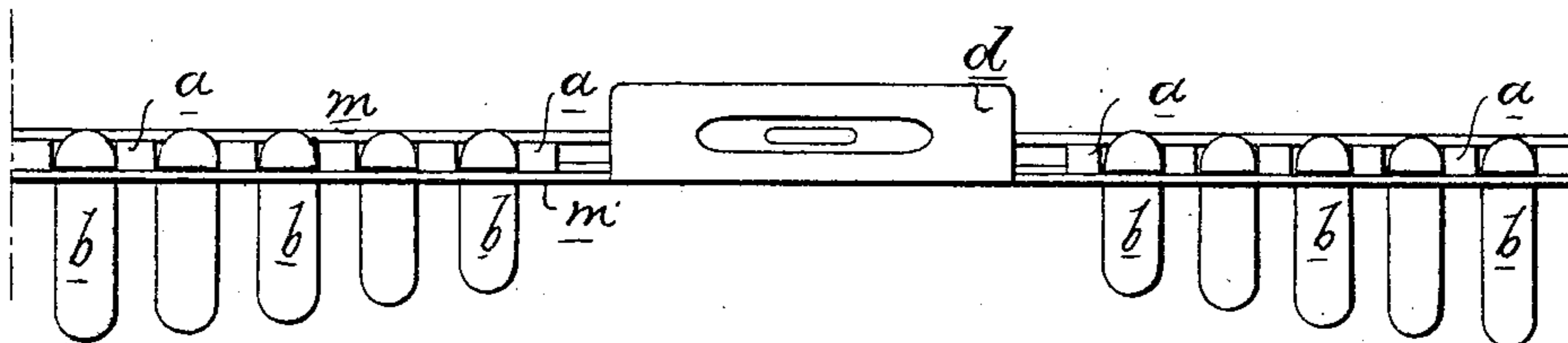


Fig. 4.

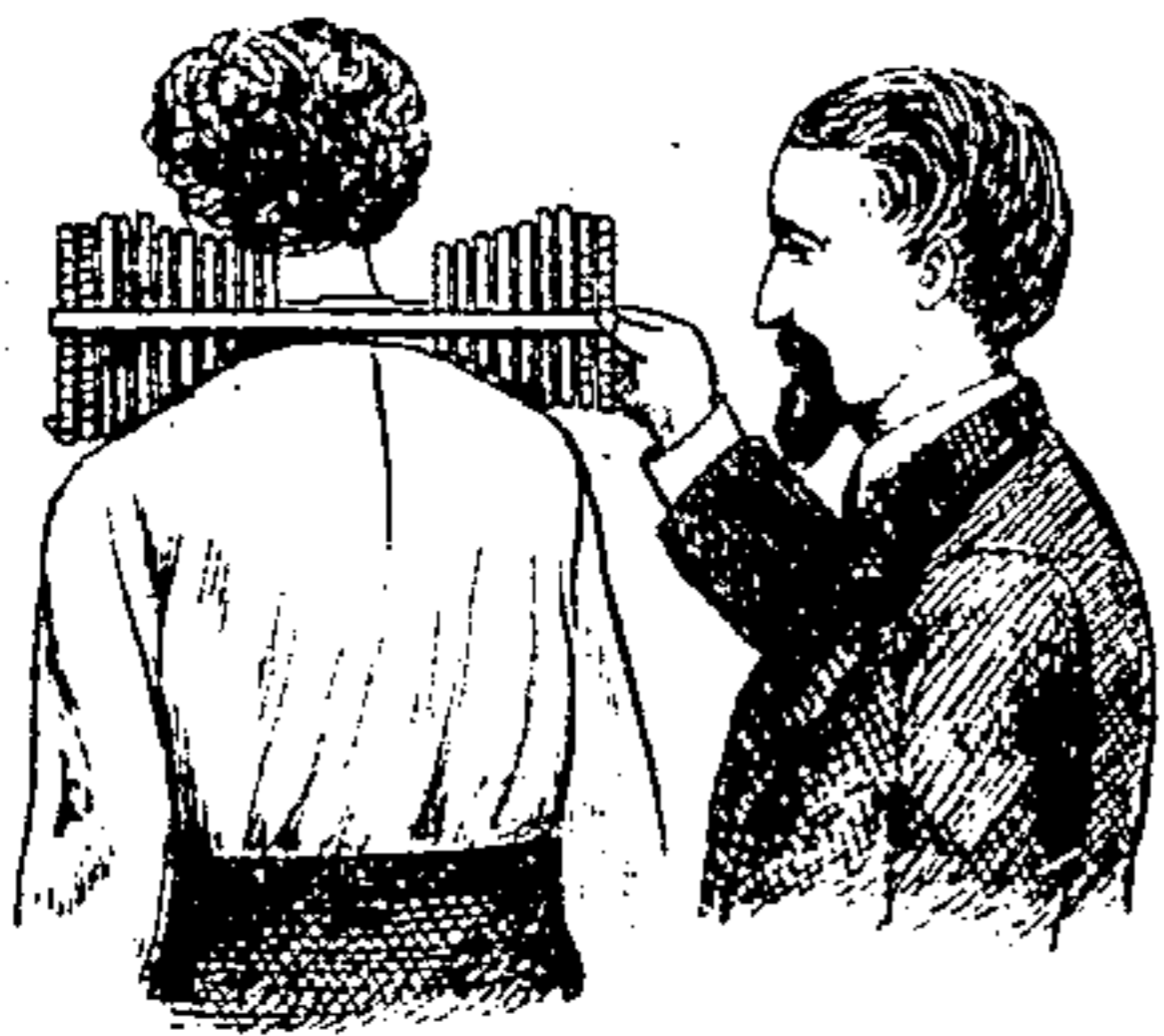
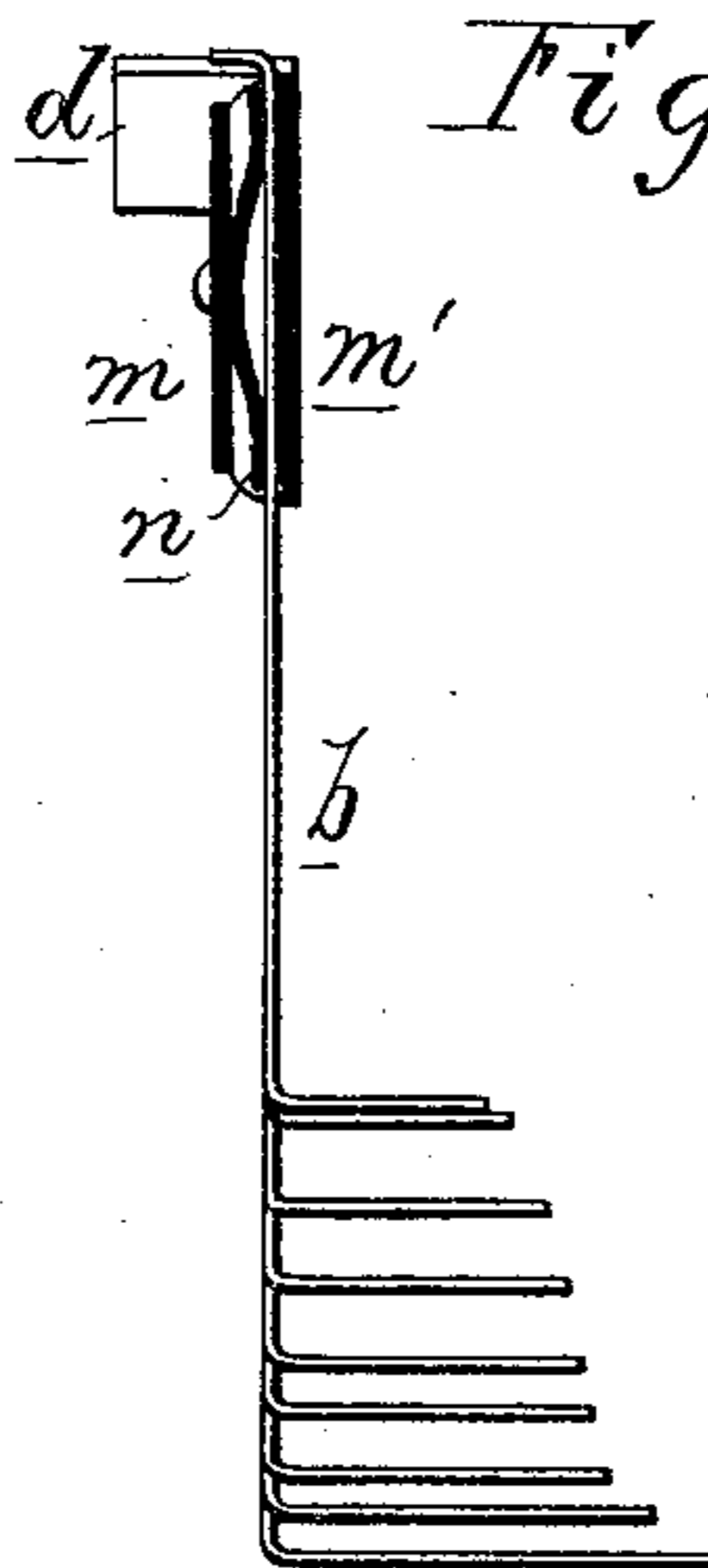


Fig. 3.



Witnesses,  
Hubert Howson  
Harry Smith

George E. Tiffany  
by his Attorneys  
Howson and son

# UNITED STATES PATENT OFFICE.

GEORGE E. TIFFANY, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM H. RICHARDSON, OF SAME PLACE.

## IMPROVEMENT IN TAILORS' DEVICES FOR LAYING OUT GARMENTS.

Specification forming part of Letters Patent No. **164,343**, dated June 8, 1875; application filed April 7, 1875.

*To all whom it may concern:*

Be it known that I, GEORGE E. TIFFANY, of Indianapolis, Indiana, have invented an Instrument for Facilitating the Cutting Out of Garments, of which the following is a specification:

The object of my invention is to construct an instrument for facilitating the accurate cutting out of garments, and determining the proper fitting of the same to the shoulders or other parts of the body; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a front view of the instrument; Fig. 2, a plan view of part of the device; Fig. 3, a vertical section, and Fig. 4 a view illustrating the application of the instrument. Figs. 2 and 3 are drawn to a larger scale than Fig. 1.

A is a frame, consisting of two opposite strips, *m m'*, of metal or other suitable material, secured together at such points by intervening pieces *a*, that the latter shall constitute guides for a series of rods, *b*, each rod being forced against the strip *m'* by a suitable spring secured to the strip *m*. There are in the present instance two sets of rods. The upper end of each rod is bent abruptly, to prevent its withdrawal from between the strips of the frame, and the lower end of each rod is also bent at right angles, the bent lower end of each set of rods being of different lengths, that of the outermost rod being the longest, and that of the innermost rod the shortest, so that each rod can have a proper bearing on the shoulders when the instrument is applied to the same, as shown in Fig. 4.

In the frame, midway or thereabout between its opposite ends, is a receptacle, *d*, for containing a spirit-level, by which the proper adjustment of the instrument may be insured.

On applying the instrument to the shoulders, as shown in Fig. 4, and gently pressing

it down, the two sets of rods will slide in the frame to an extent dependent upon the conformation of the shoulders. Hence this conformation may be transferred to a pattern by simply placing the instrument, after its removal from the shoulders, on the pattern, making thereon a line determined by the ends of the rods, the latter owing to the springs *n* retaining the positions they have assumed during the operation of making the curved line.

Owing to the curve of the shoulders toward the chest a series of straight rods, resting with their lower ends upon the shoulders, would not determine the conformation of the latter at the proper points. Hence the necessity of bending the rods to form arms of different lengths, the ends of which follow the slight inward curvature of the shoulders.

The rods *b* may, if desired, be graduated, as shown in Fig. 1, the outline of the shoulders in this case being indicated by the graduations as they appear on the line of the frame A.

The instrument may be constructed for application to different parts of the body; but it is especially applicable to the obtaining of the accurate shape of the shoulders, and for insuring the proper fitting of shirts and other garments to the same.

I claim as my invention—

A device for obtaining the shoulder-outline for garments, consisting of the frame A, the two sets of guide-rods *b*, the rods of each set having bent ends of different lengths, the springs *n*, and the spirit-level *d*, all combined substantially as set forth.

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

GEORGE E. TIFFANY.

Witnesses:

GEO. W. RUSS,  
W. H. A. DELL.