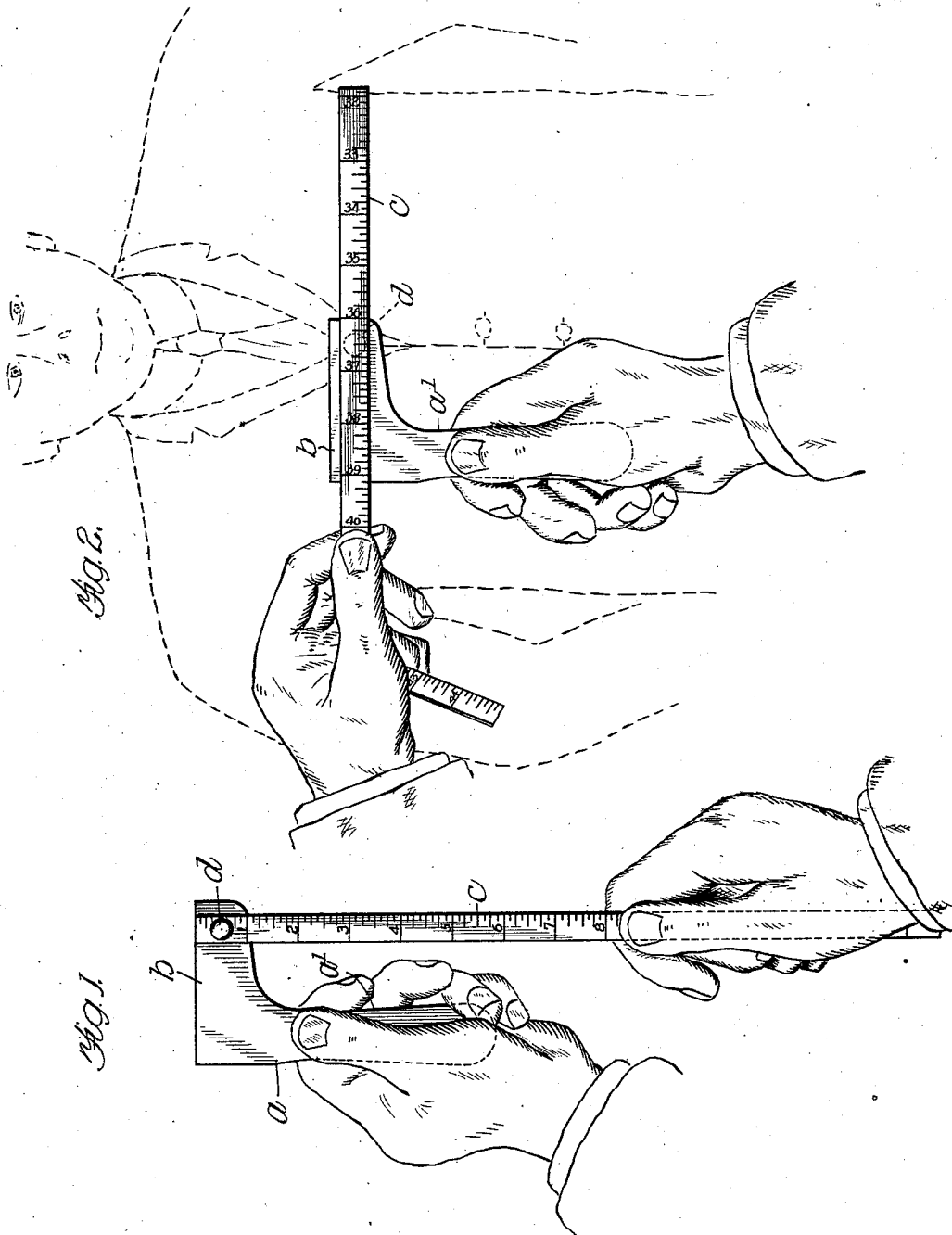


T. W. HANRATH.
TAPE MEASURE ATTACHMENT.
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1,001,142.

Patented Aug. 22, 1911.



Witnesses:
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UNITED STATES PATENT OFFICE.

THEODORE W. HANRATH, OF CHICAGO, ILLINOIS.

TAPE-MEASURE ATTACHMENT.

1,001,142.

Specification of Letters Patent. Patented Aug. 22, 1911.

Application filed November 14, 1910. Serial No. 592,251.

To all whom it may concern:

Be it known that I, THEODORE W. HANRATH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Tape-Measure Attachments, of which the following is a specification.

My invention relates to tape-measure attachments especially those designed for the use of tailors and others who make garments to measure, and the object of the invention is to provide means for facilitating the taking of accurate measurements.

I obtain my object by means of the construction illustrated in the accompanying drawing in which—

Figure 1 is a face view of the device showing the manner in which it may be used for taking crotch or arm pit measurements. Fig. 2 is a face view of the device illustrating the manner in which it may be used for breast and similar measurements taken in a horizontal or approximately horizontal direction.

Referring to the accompanying drawings, *a* represents the handle and *b* represents the lateral arm of an L shaped terminal piece composed of wood fiber, plaster-board, celluloid, wood or other suitable material. Near the end of arm *b* a tape-measure *c* is fastened by means of a "snap-fastener" *d* or any other suitable attaching means. While it is not essential that the tape-measure be detachably attached to the terminal piece, it is desirable; and it is essential that the attachment be a pivotal one such that the tape may be swung to a position parallel to handle *a* as shown in Fig. 1 or at right angles thereto as shown in Fig. 2.

The center of the pivotal fastening device is so located with respect to the terminal piece and to the tape that when the tape is parallel to the handle, as shown in Fig. 1, the end of the tape shall be flush with the upper edge of the lateral arm, and when the tape is transverse to the arm and extends in a direction from the outer end thereof to-

ward the handle, the end of the tape shall be flush with the outer edge of the lateral arm. As a result of this characteristic the upper and outer edges of the arm both form gages for reading the measurement from the tape.

When properly proportioned the length of the lateral arm and the position of the fastening device thereon are such that the axis of the fastening device is approximately one inch from the nearest edge *d'* of the handle. As a result of this construction when the tape is held parallel to the handle as shown in Fig. 1, it clears the fingers and knuckles of the operator. The importance and advantage of this will immediately become apparent to those accustomed to taking measurements, for in prior devices of this general class the hand and fingers of the operator seriously interfere with accurate measurements, and render the taking of measurements more or less inconvenient and awkward.

With my device not only is the operation rendered more convenient and accurate but both horizontal and vertical measurements may be made, using the edges of the terminal piece as a gage, without changing the position of the terminal piece.

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

In a tape-measure attachment, the combination with the tape, of an L shaped terminal piece comprising a handle and an integral arm extending laterally from one end thereof, said arm having an upper and an outer measuring-edge, and a pivotal fastening device for the tape located as far down from the upper edge of the arm and as far in from the outer edge of the arm as the fastening device is from the end of the tape.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

THEODORE W. HANRATH.

Witnesses:

MARGARET D. ROBB,

MAX S. ROSENZWEIG.