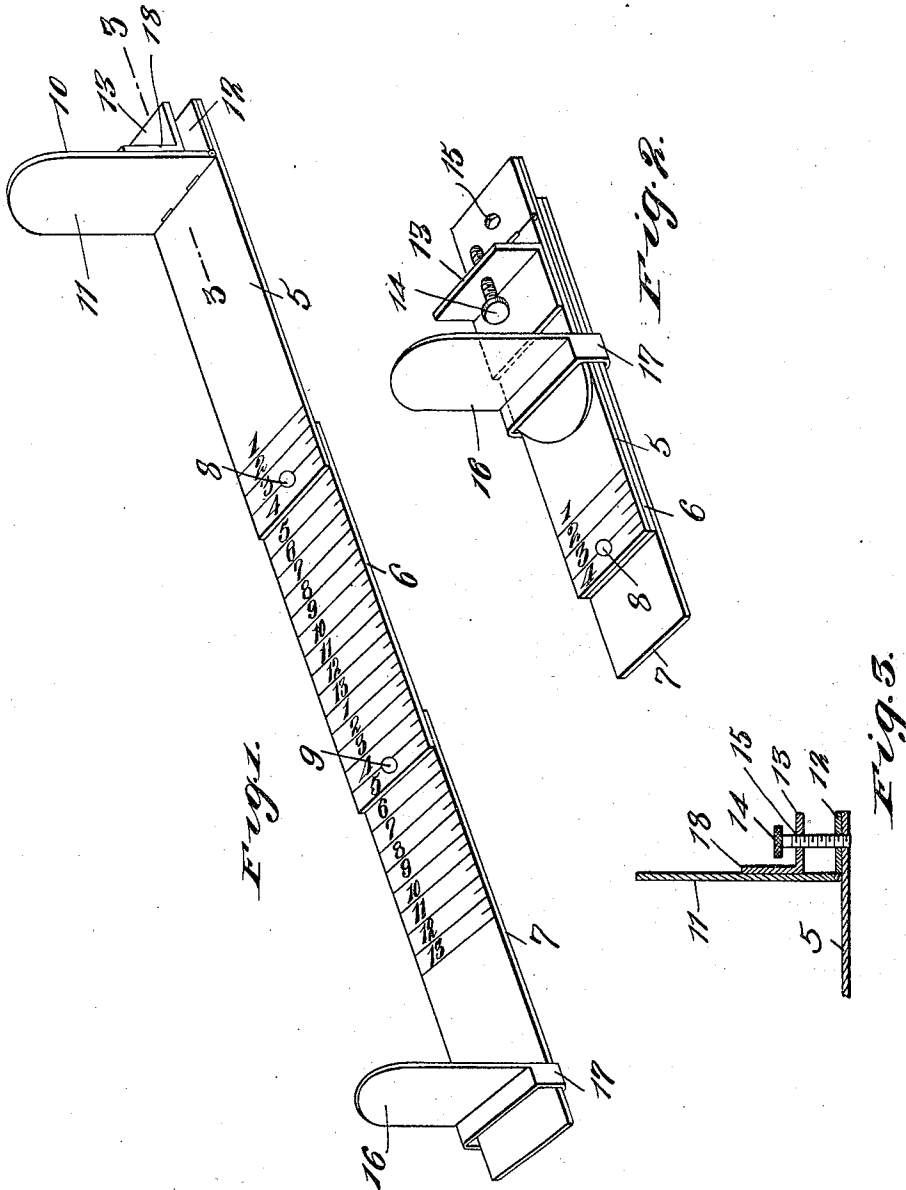


J. M. BROMLEY.
SHOE MEASURE.
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1,017,201.

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Witnesses:
Henry C. Hebig
Chas. L. Symmes

Inventor
John M. Bromley
By *Attorney*
Chas. E. Drum

UNITED STATES PATENT OFFICE.

JOHN M. BROMLEY, OF NEW YORK, N. Y.

SHOE-MEASURE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN M. BROMLEY, a citizen of the United States, residing in the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Shoe-Measurers, of which the following is a full, clear, and exact specification.

10 This invention relates to measuring instruments and is especially adapted for embodiment in a shoe measure, that is, a folding measuring stick for the use of shoe salesmen, in measuring the feet of customers for shoes.

15 The object of the invention is to provide the shoe salesman with an accurate measuring stick which can be folded into such compact form that it may be conveniently carried in the pocket when not in use, and can also be as readily opened for use when required.

20 In the drawings accompanying and forming a part of this specification one practicable embodiment of my invention is illustrated, wherein—

25 Figure 1 is a perspective view of the device in open form ready for use, Fig. 2 is a perspective view of the device illustrated in Fig. 1 folded in position to be put in the pocket, and Fig. 3 is a longitudinal section taken on a plane at about the line indicated by 3—3 in Fig. 1.

30 The measuring stick generally used by shoe salesmen has a fixed face or abutment for engaging the heel of the foot to be measured and a movable member or abutment having a face for engaging the front of the foot, the end of the toe. Such latter face, that is, the face of the movable member will act as an index in conjunction with the scale on the stick to show the length of the foot in shoe lengths or sizes.

35 In the present improvement the "stick" will be composed of a number of sections. In the illustration herein there are shown three sections, 5, 6 and 7. Sections 5 and 6 are jointed together by a pivot 8, and sections 6 and 7 are jointed together by a pivot 9 in such manner that the sections may be folded one upon the other flatwise in the manner illustrated in Fig. 2, by an endwise movement of the member.

The heel engaging member is shown as

having a portion 10 provided with a face 11, for engaging the heel and facing toward the scale provided upon the sections of the stick. The portion 10 of the heel engaging member is shown hinged to a portion 12 which is secured to the top face of the section 5 in such manner that the face 11 may be folded flat upon the flat top or working face of the section 5. The rear of the member 10 is shown carrying an angle bar 13 which is tapped and carries a set screw 14, which will engage a tapped hole 15 in the member 12. This is for the purpose of fastening the number 10 in position so that its face 11 will be disposed at the proper angle to the working face of the stick. The set screw 14 permits the heel-engaging member to be held in a rigid position when the device is in use and permits the member 10 to be released so that it may be folded down upon the top face of the top section 5 when the device is folded up to be put in small compass, so that it may be conveniently disposed of, as for instance, placed in the pocket of the salesman.

When it is desired to use the measuring stick, the heel engaging-member 10 will be brought to its proper position relative to the top portion or stick 5, and be held or secured in such position by means of the set screw 14. The toe-engaging member 16 has a face occupying a plane normally parallel with the plane of the face 11. This member 16 is carried by a box portion 17, which will run over the sections of the stick and register with the scale upon the same indicating the length of the foot which is being measured.

When the device is folded up with the sections piled up one upon the other in the manner illustrated in Fig. 2, the box 17 will embrace the several piled up sections as well as member 10 which has been let down flat upon the outer face of the outer section, the box 17 being of course, given sufficient dimension to embrace these members. The member 10 may be made slightly tapering for giving a certain amount of friction to hold the box 17 in its locking position. The end 18 of the angle bar 13 may act as an abutment for stopping the movement of the box 17 and locating it at its proper position.

Although I have described but one embodiment of my invention, it will be appar-

ent that changes may be made in detail without departing from the scope or spirit of my invention.

Having thus described my invention, I claim:

1. In a shoe measuring stick, the combination with a series of flat members pivoted together and foldable flatwise one upon the other, of a heel engaging member pivotally mounted on the outer face of one of the outer members and foldable flatwise thereon, a toe-engaging member having a box slidable over the folded sections and over the folded heel-engaging member for holding these in their folded relation.

2. In a shoe measuring device the combination with a plurality of flat sections pivoted together and adapted to fold together flatwise, one upon the other, a heel-engaging member comprising a portion having a face for engaging the heel and a portion hinged thereto and secured to the outer end of the outer face of one of the sections, said latter portion being provided with a tapped hole, an angle bar carried by the outer face of said hinged portion and provided with a tapped hole, located in position to aline with the hole in the other portion, a set screw mounted in the tapped hole in said angle bar for engagement with the first mentioned tapped hole, a toe-engaging member having a box for traversing the stick and registering with a scale thereon, said box being of sufficient dimension to closely engage the stick sections and the heel-engaging member when folded together flatwise, and the edge of the angle bar being in position for acting as a stop for said box, and a scale upon the stick in proper relation to the heel-engaging face.

3. In a measuring device the combination with a stick composed of a plurality of sections pivoted together to fold one upon an-

other, of a heel engaging member carried by one section and so connected therewith that it will fold upon the folded sections, and a toe engaging member carried by the stick and having a portion for surrounding the sections and heel engaging member when these are folded.

4. In a shoe measuring device, the combination with a plurality of stick sections pivoted together and foldable one upon the other, a heel engaging member, a pivotal connection between said member and the free end of one of the sections, means for positioning and locking the heel engaging member in its operative position, a toe engaging member, a slide on one of the sections carrying the toe engaging member when open and slidable on said sections for embracing the sections when folded.

5. A shoe measuring device comprising three flat sections pivoted together for folding together flatwise one upon the other by an edgewise movement, a heel-engaging member comprising two portions hinged together, one portion having a face for engaging the heel, and the other portion being secured to the free end of one of the sections, means for supporting the first named portion in operative position, a toe engaging member provided with a slide for embracing and traversing the stick and registering with a scale thereon, said slide being of sufficient dimension to closely embrace the stick sections and heel engaging member when folded together.

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

JOHN M. BROMLEY.

Witnesses:

ISADORE BERNSTEIN,
WM. C. DUNN.