

(No Model.)

A. S. ADLER.
SHOE MAKER'S MEASURE.

No. 322,238.

Patented July 14, 1885.

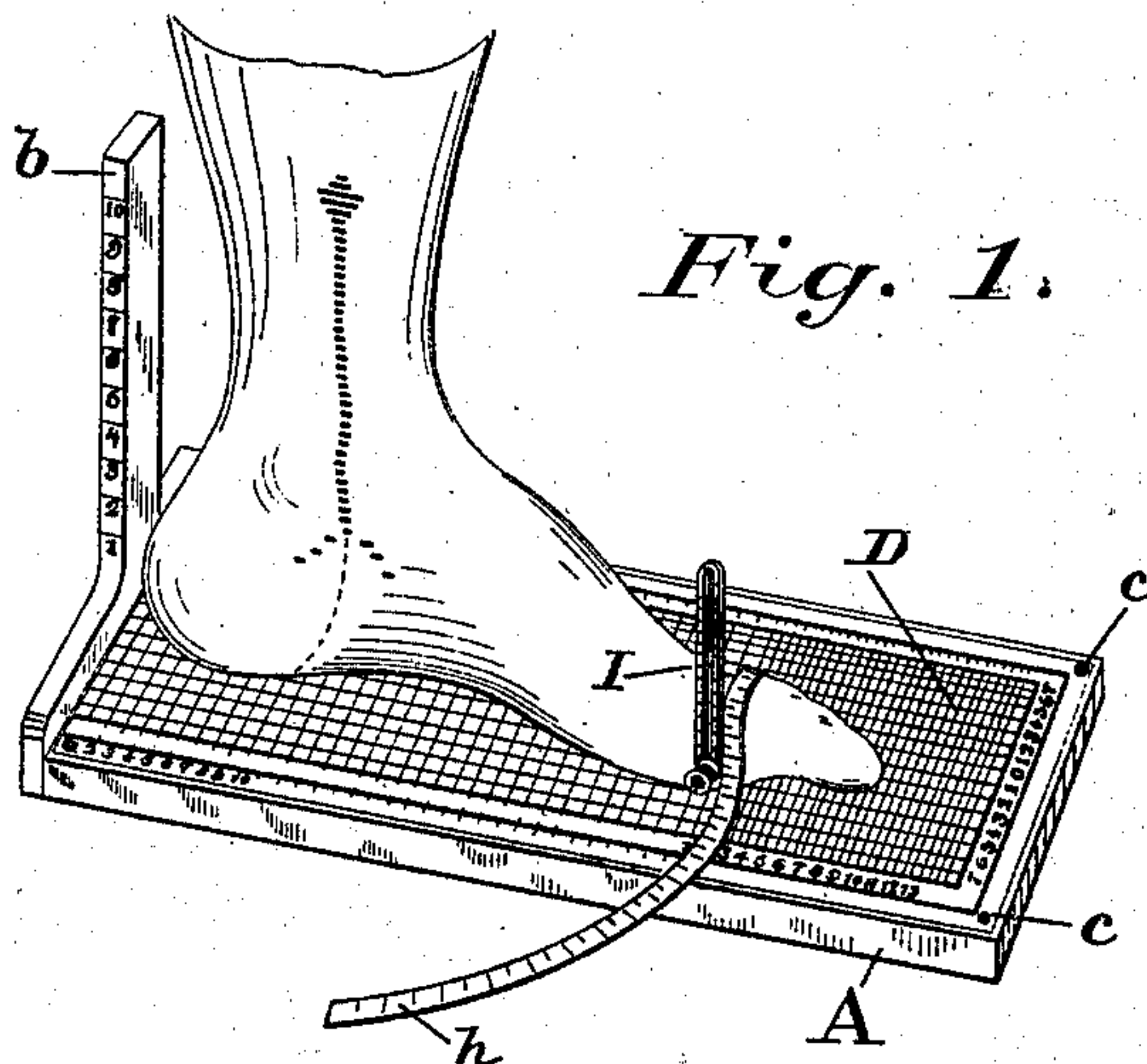


Fig. 1.

Fig. 2.

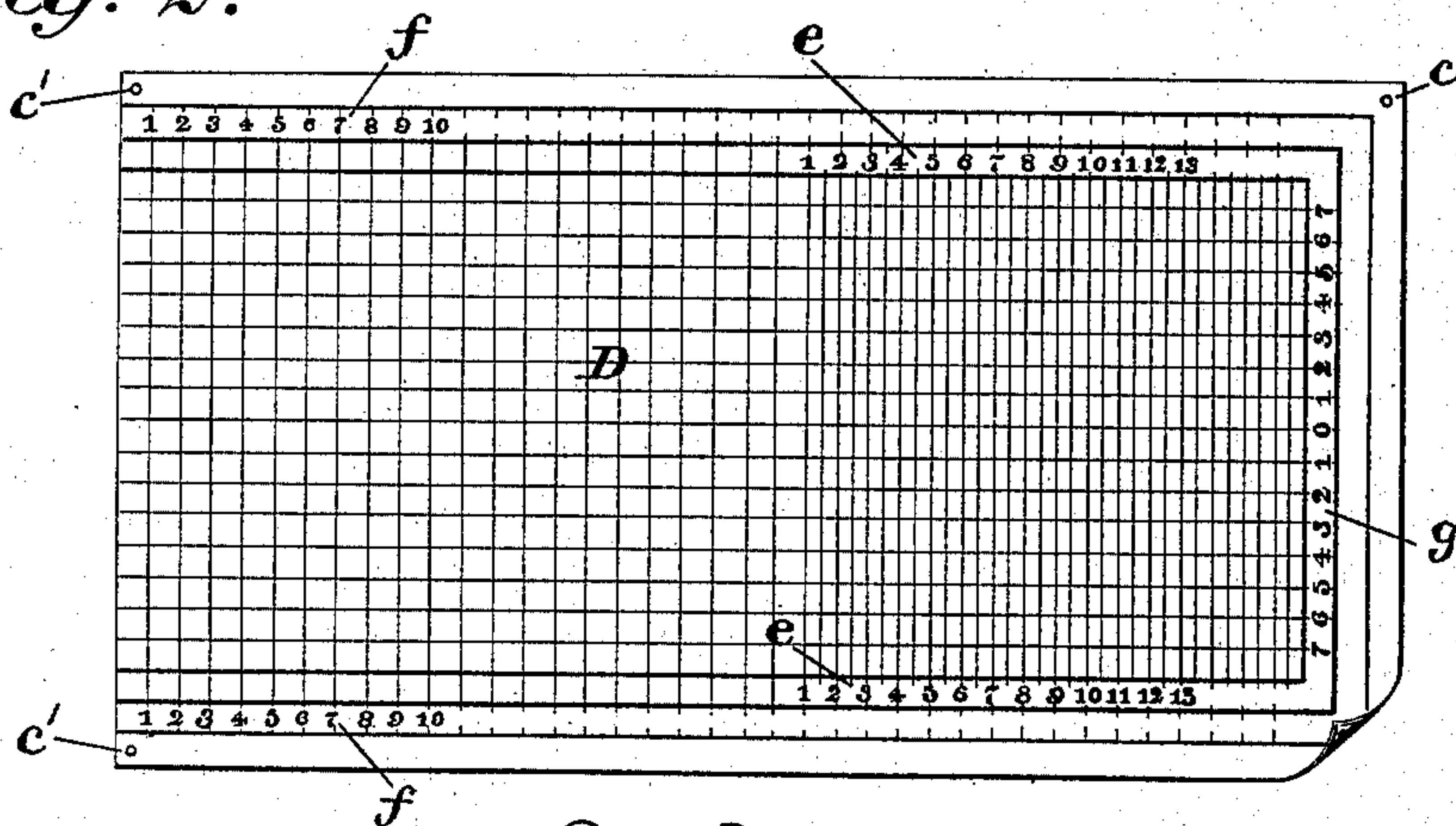


Fig. 3.

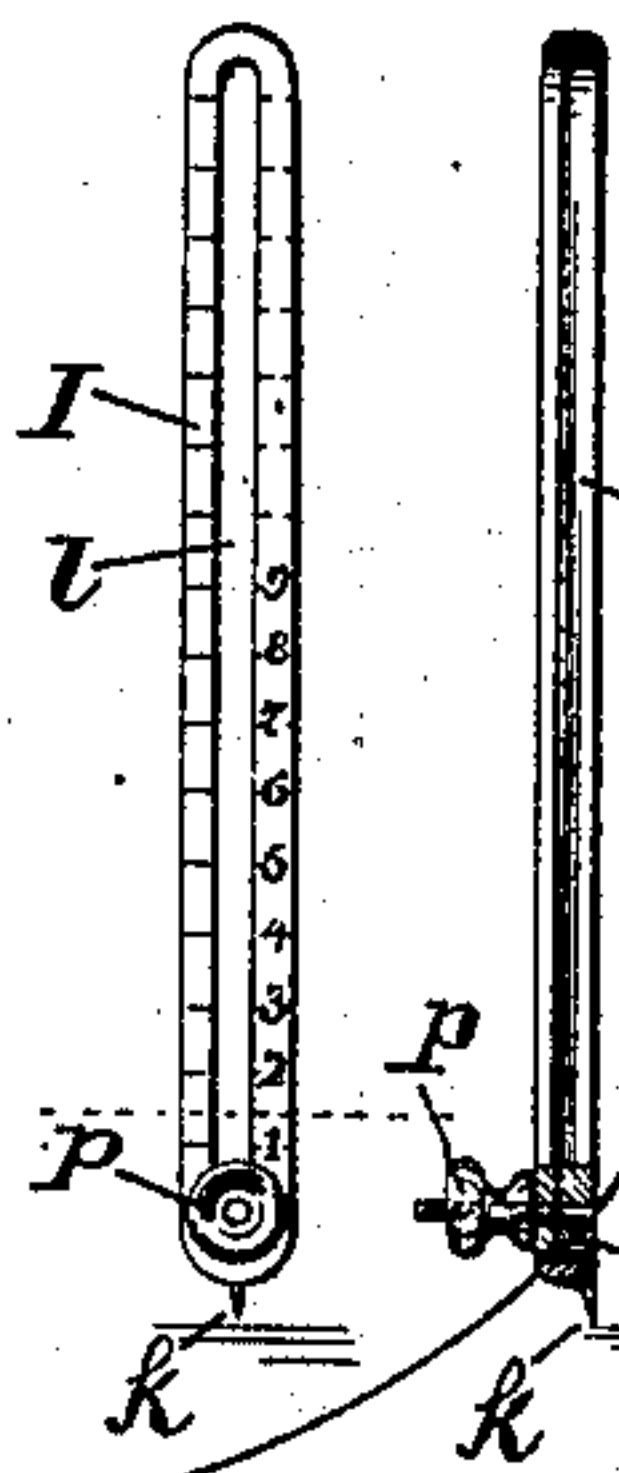


Fig. 4.



Fig. 5.

WITNESSES:

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SHOE-MAKER'S MEASURE.

SPECIFICATION forming part of Letters Patent No. 322,238, dated July 14, 1885.

Application filed May 7, 1885. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM S. ADLER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Foot-Measures, of which the following is a specification.

My invention relates to improved means for taking the measure of the human foot. The object is to provide a measure and a diagram to be used in combination, by means of which an accurate measurement of the foot may first be obtained and recorded on the diagram, which latter is then useful in making a shoe or boot.

The construction of the improved foot-measure and diagram, whereby the desired result is accomplished, will be described in connection with the accompanying drawings, which illustrate what is deemed the best means of carrying the invention into effect.

Figure 1 is a view of the measure, and shows the foot in position to be measured. Fig. 2 is a view of the diagram separate. Fig. 3 is a front view of the tape-holder and diagram-marker. Fig. 4 is a vertical section of the tape-holder. Fig. 5 is a cross-section of the same.

The letter A designates the base, which is provided at one end with an upright heel-piece, *b*, having measure or scale marks numbered 1, 2, 3, &c. These serve for noting the height whereat the ankle and leg measurements are taken. The top of the base has at each corner a fixed pin, *c*, and the diagram D, of paper or other material, has at each corner a perforation or hole, *c'*, so that when the diagram is spread flat upon the base-top it may be temporarily secured thereto by engaging the hole *c'* at each corner on the pin *c*. The holes in the paper diagram and the pins on the base serve simply to keep the diagram from moving while the measurements are being taken. Any other suitable device may be used which will serve the same purpose.

The diagram D is divided or laid off by two sets of intersecting lines, one set extending lengthwise and one set crosswise, and the two sets crossing each other at right angles, thereby forming small square spaces. A row of figures, *e*, is on each long side of the diagram, and designate the short cross-lines, which constitute the standard foot-length sizes. Another row of

figures, *f*, is also on each long side, and these designate the points or locations whereat the various cross-measurements of the foot are or may be taken. At and across the end the diagram has a row of figures, *g*, each of which designates one of the long lines.

An ordinary measuring-tape, *h*, is employed, and one end of it is attached to a diagram-marker, I, which consists of a bar provided at one end with a marking-point, *k*, for indenting, puncturing, or marking the diagram. This diagram-marker may be variously constructed; but, as already stated, the essential feature is, that it shall be capable of producing a suitable mark on the paper diagram, while at the same time it holds one end of the measuring-tape. In the present instance the combined diagram-marker and tape-holder I has a longitudinal slot, *l*, in the bar, and a block, *n*, is fitted to slide along one side of the bar, and a screw-threaded bolt, *o*, attached to the block, passes through the slot in the bar, and has a set-screw, *p*. The end of the tape *h* is attached to the block *n*. By this construction the block may be moved up or down on the bar and made fast at any point, whereby the position on the bar of the attached end of the tape may readily be changed to better adapt it to the particular part of the foot where measurement is to be made. The bar I has measure or scale marks numbered 1, 2, 3, &c., by which may be noted the height whereat the end of the tape is set.

The measurement of a foot is taken as follows: First place one of the paper diagrams D (of which a shoe-maker should keep a quantity on hand, one being used for each measurement) on the base A, and secure it from movement. The person's foot should then be placed upon the diagram, as shown in Fig. 1, with the heel against the upright heel-piece *b*. The diagram at the end of the large toe should be marked by a suitable indentation made with the marker I. This gives the length of the foot. The tape-holding block *n* should be set at the proper height on the bar for taking the "in-step" measurements. The tape is put under the foot and the marking-point *k* is set on the diagram, thereby locating the point where the measure is taken, and then, as shown in the drawings, the tape is brought over the foot to the place where its end is attached to the block, and the measurement is then read, and by

means of a pencil or pen and ink the size is marked on the diagram in proximity to the indentation made by the point *k*. In like manner will be made and noted the rest of the foot-measurements which are usually taken by shoe-makers—namely, over the ball of the foot, across the toes, at the heel and instep, ankle, and leg. The foot during these measurements must not be moved.

It will be seen that the diagram will show by the indentations a broken outline of the foot, and what is of prime importance the exact location on the foot where each measurement was taken will be indicated on the diagram, thus insuring exactitude in fitting up a shoe-last.

Having described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A foot-measuring diagram laid off by intersecting lines, and having on each of two opposite sides a row, *e*, of figures to designate the standard foot-lengths, and a second row, *f*, to designate the points or locations whereat the cross-measurements are taken, and provided across the end with a row, *g*, of figures, as and for the purpose set forth.

2. A foot-measure having in combination a diagram, *D*, laid off by intersecting lines, a diagram-marker provided with a suitable point, and a tape-measure having one end attached to the said marker, as set forth.

3. A foot-measure having in combination a diagram, *D*, laid off by intersecting lines, a diagram-marker provided with a suitable point, and having a block with a set-screw to move or slide along the marker, and a tape-measure having one end attached to the said movable block, as set forth.

4. A foot-measure having in combination a base, *A*, provided with a heel-piece, *b*, a diagram, *D*, laid off by intersecting lines, to lay on the base, and pins or other equivalent device to keep the said diagram from moving on the base, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ABRAHAM S. ADLER.

Witnesses:

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