R. E. BEARD

COMBINATION SHOE STOOL, FOOT MEASURE, REGISTER AND MIRROR

Filed June 1, 1927

3 Sheets-Sheet 2

INVENTOR
Ralph E. Beard

BY
E. Vroman & Co.

the ATTORNEYS.
This invention relates to an apparatus used in a boot or shoe store for quickly and efficiently fitting a customer's foot with the proper size boot or shoe.

The object of the invention is the production of a combination apparatus embodying a shoe stool, a foot measure, register and mirror.

Another object of the invention is the provision of simple and efficient means for accurately obtaining the size and last of a customer's foot, for properly fitting the customer with a boot, shoe or slipper or the like.

With the foregoing and other objects in view, my invention comprises certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a perspective view of an apparatus constructed in accordance with the present invention, while

Figure 2 is a fragmentary perspective view of the same.

Figure 3 is a longitudinal, vertical, sectional view of the apparatus.

Figure 4 is a sectional view of the apparatus taken on line 4-4, Figure 3, and looking in the direction of the arrows.

Figure 5 is a bottom plan view of the hinged support or "plate".

Figure 6 is a sectional view taken on line 6-6, Figure 5 and looking in the direction of the arrows.

Figure 7 is a sectional view taken on line 7-7, Figure 1, and looking in the direction of the arrows.

Figure 8 is a perspective view of the last or width determining device.

Figure 9 is a perspective view of the size or length determining or finding device.

Figure 10 is an enlarged sectional view taken on line 10-10, Figure 1.

Referring to the drawings by numerals, 1 designates the body of the apparatus, upon which is formed the seat 2. The body or "cabinet" is supported upon rollers 3. At one side of the body is a vertical hinged strip 4, to which is hingedly secured a mirror 5. This mirror 5 is supported on rod 6 (Fig. 4), which rod is fastened to plate 7 on strip 4, so that the mirror can be tilted forward or backward to enable the customer to see the boot or shoe on his foot. To accomplish this function, the mirror 5 is swung out so as to be substantially at right angles to the body 1, and then by tilting the top of the mirror slightly forward, a customer sitting facing the apparatus can place his foot on the floor and look into the mirror and see the boot or shoe on his foot. A bracket 8 is fastened to the mirror, upon which bracket may be temporarily hung or supported the boot or shoes while the fitting of the purchaser is in progress.

On the front of the body 1, I hingedly mount the support or "plate" 9. It is to be understood that I use the term "plate" in a broad sense to designate the element carrying the last and size determining or finding devices. This plate 9 is provided with a central depressed portion 10 and with lower flanges 11. The last finding or determining device 12 comprises a shoe 13 that slides in slot 14 of the auxiliary plate 15 mounted in a spaced position on the bottom of the depressed portion 10 of plate 9. The shoe 13 is provided at its upper edge with a horizontal flange 16 bridging slot 14, and is also provided with lower flanges 17 (Fig. 8) that bear against the bottom face of auxiliary plate 15. The shoe 13 is integral with flange 18, which flange is slidably mounted the bottom 19 of the foot engaging upright 20. This upright 20 carries a punch 21, which has a coil spring 22 mounted thereon between nut 23 and the upper horizontal portion 24, so that when the punch is not in use, it will be held from engagement with the record ticket that passes under the punch, as hereinafter explained. The outer flange guide 18 is provided with a plurality of vertical apertures 25, through which the lower end of the punch passes; these apertures 25 also register with apertures 25a (Fig. 5) formed in the auxiliary plate 15. It will, therefore, be seen that the last determining device, for securing the width of the shoe, required by the purchaser, can be slid along the slot 14 over the auxiliary plate 15 to secure the best
positioning of the device, with the purchaser's foot resting on the plate, then the sliding upright 20 can be adjusted transversely of the plate 9, to bring it against one side of the purchaser's foot, whereupon the punch 21 can be forced downward, by the salesman's finger, and the record ticket, between the guides 18 and portion 24, will be punched or perforated, on the printed line or space designating the last or 'width' of the book or shoe required by the purchaser.

The outer end of the flange guide 18 is a tongue 26 that slides under the main plate or portion 10 (Fig 5); this tongue 26 acts as an additional means for holding the last determining device in position upon the apparatus. It will, therefore, be seen that I have provided a last determining or finding device including a base comprising a shoe with guiding means, and a punch carrying foot engaging means slidably mounted upon the guiding means.

The size or length determining or finding device is slidably mounted upon the central depressed portion 10 and comprises a base plate 27, an upper plate 28, and an upright 29. A block 30 spaces plates 27 and 28 apart, and by means or rivets 31 extending through said plates and block 30, the parts are held together. A punch 21a is mounted on the upright 29 similar to punch 21. The lower end of punch 21a works in a socket 32 formed in flange 33. This punch 21a passes through upper plate 28, record ticket 34 and into socket 32 when the salesman presses on said punch for recording the size or length of the boot or shoe required by the customer. The flange 33 works in slot 35 of the depressed portion 10 of plate 9.

This flange 33 retains the size determining device in position upon the depressed portion 10 of plate 9. It is to be understood that the purchaser places his foot on depressed portion 10 with the heel against flange 11 of said portion, and the size determining device is brought in contact with the big toe, whereupon the punch 21a can be operated by the salesman to record on the record ticket the exact size required.

The record ticket is formed in a roll 36 (Fig 3), carried on shaft 37. This shaft 37 is mounted on U-shaped bracket 38. The record ticket is threaded up between depressed portion 10 and auxiliary plate 15, thence under portion 24 of the last determining device and plate 28 of the size determining device, so that the punches 21 and 21a will operate on the record sheet or ticket. This roll 36 is printed, forming a series of record tickets 34. This record ticket is specifically described in my co-pending application. A new record ticket is used for each purchaser; as soon as one purchaser's foot has been measured, the roll is operated for feeding the completed record ticket under the knife device at the upper end of the central depressed portion 10; this knife device comprises a rod 39 on which is mounted a substantially U-shaped frame 40 that acts as a knife, whereby the operator can tear off a single ticket 34, as shown in Figure 1. A grip 41 has a coil spring 42 thereunder (Fig 1) so that normally frame 40 is pressing upon the record ticket, but upon pressing down upon grip 41, the record ticket can be drawn freely under the knife device.

A record book 43 is held in place upon the apparatus by means of the book holding device 44. This book holding device comprises plate 45 that has at one end a depending leg 46 and at its other end a depending lip 47. The leg 46 extends into the body, as shown in Figure 2, and a nail 48 holds the plate 45 in position. The lip 46 extends downward upon the body and slidably mounted on plate 45 contiguous to lip 47 is a sliding catch 49. This catch 49 has pin 50, and a coil spring 51 is mounted at one end on pin 50, and its other end is mounted on the inwardly extending portion of lip 47, whereby the catch 49 is normally held over the outer end of latch 52. The outer end of latch 52 is loosely mounted on stud 53, and the inner end of latch 52 extends through opening 54 of catch 49. The book 43 (Fig 1) is clamped and held under latch 52, but by exerting pressure on catch 49, it can be moved outwardly upon plate 45 enough to clear the outer end of latch 52, whereby the latch can be lifted at its outer end enough to permit the removal or placement of the book 43 upon the apparatus.

A foldable plate 55 is mounted upon plate 9; by "foldable" I mean that this plate can be swung outwardly as shown in dotted lines, Figure 1, to allow inspection of a card, carrying instructions, that may be on the face of the plate.

A flanged plate 56 is held flat on the top 110 of the body 1, and in the same is usually placed a card for the salesman's use. By means of a chain 57, an ordinary shoe hook may be attached to the apparatus, and by means of chain 58, a shoe horn 59 is positioned conveniently upon the apparatus for use by the salesman.

If it is desired, a size chart may be formed on the hinged plate 55, either by fastening a printed sheet thereon or forming the chart directly on the metal in any suitable manner. The book 43 is preferably made of tissue paper and used for a record of sales with the sale tally card in the flanged plate 56.

The body or cabinet 1 is provided with a door 60 (Fig 4), so that when the mirror 5 is in an open position, the body or cabinet will still present a closed appearance, by reason of the door 60 being exposed, and not the hollow interior of the body 1. This door
60 gives a finished appearance, when the "mirror" door or mirror 5 is open, usually for the purchaser to inspect his shoe.

After the measurement has been made and shoe is being fitted on the customer's foot, the foot usually rests on the plain surface of the plate 9 to one side of the depression 10. Then the salesman presses on grip 42 of the knife device, releasing this knife device or clamp, whereupon the other hand of the salesman can pull the ticket up to present another ticket of roll 36, on depressed portion 10, ready for the next sale. The sale ticket is then made out on book 43. In case the salesman fails to make a sale, he has a ticket with a measurement on it, for which he must give an explanation of why the sale was not made, etc.

In the foregoing specification, I have used the word "mirror" in a broad sense to designate the mirror and its frame; the mirror 5 being hinged mounted to swing forwardly or backwardly on a horizontal center represented by rod 6.

The plate 9, mounted on hinges 61, may be lifted outwardly at its upper end for allowing the roll-like record tickets to be threaded up through the depressed portion 10 and under the punch devices of the last size determining devices.

While I have described the preferred embodiment of my invention and illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention relates during the extensive manufacture of the same, and I, therefore, reserve the right to make such alterations or changes as shall fairly fall within the scope of the appended claims.

What I claim is:

1. In an apparatus of the class described, the combination with a body, of a plate provided with a slot on said body, a last determining device comprising a shoe in said slot, said shoe provided with means bridging the slot and engaging the plate, flanged guides extending from said shoe, a foot contacting device slidably mounted in said flanged guides, and a punch mounted on said foot contacting device.

2. In an apparatus of the class described, the combination with a body, of a plate provided with a slot carried by said body, a record ticket adapted to pass over said plate, a last determining device provided with a shoe slidably mounted in said slot, said shoe provided with upper and lower flanges engaging said plate, flanged guides extending from opposite sides of said shoe, one of said guides provided with vertical apertures and with a projecting tongue, a foot contacting device provided with an upright and with a bottom, said bottom slidably mounted in said flanged guides, and a spring pressed punch on said upright and adapted to enter said vertical apertures when operating upon said record ticket.

3. In an apparatus of the class described, the combination with a body, of a plate provided with a depressed portion carried by said body, an auxiliary plate secured in spaced relation to said depressed portion, said auxiliary plate provided with a slot, a foot measuring device slidably mounted in said slot and having a portion extending under said depressed portion of the first-mentioned plate, and a punch on said foot measuring device.

4. In an apparatus of the class described, the combination with a body, of a plate carried by said body, an auxiliary plate on said first-mentioned plate, a last determining device slidably mounted on said auxiliary plate, and a length determining device slidably mounted on the first-mentioned plate and having a portion extending over part of the first-mentioned plate.

5. In an apparatus of the class described, the combination with a body, of a hinged plate on one end of said body, a record ticket, said plate being slotted for receiving said record ticket, sliding and adjustable measuring devices on said plate and having portions spaced for receiving said record ticket thereunder, said measuring devices provided with punches, and said record ticket threaded through the slotted portion of the plate and under portions of the measuring devices in position to be operated upon by said punches.

6. In an apparatus of the class described, the combination with a body, of a hinged plate on one end of said body, a record ticket roll under said hinged plate and provided with a portion threaded up through said plate and over a part of the top of said plate, measuring means carried by said plate and adapted to operate upon said ticket in a plurality of places, and said plate provided with clamping and cutting means for facilitating the severing of each individual ticket after a record has been established thereon.

7. In an apparatus of the class described, the combination with a body provided with a movable plate, a record ticket above said plate, a last determining device slidably mounted upon said plate, said last determining device provided with a shoe engaging the plate, flanged guides extending in opposite directions from said shoe, a foot engaging device slidably mounted upon said guides, said record ticket positioned under said foot-engaging device, and a vertically movable spring pressed punch on said foot engaging device and adapted to pass at its lower end through one of said flanged guides, whereby a hole may be punched in said record ticket.
8. In an apparatus of the class described, the combination with a body, of a plate provided with a slot mounted on said body, a foot measuring device on said plate, said foot measuring device comprising a base plate provided at one end with an upstanding flange, said flange in said slot, blocks on said base plate, an upper plate fastened on said blocks, said upper plate provided with an upright, said flange provided with a socket, and a spring pressed punch on said upright and adapted to enter said socket.

In testimony whereof I hereunto affix my signature.

RALPH E. BEARD.