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G. GODDU

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MEANS FOR HOLDING SHOE UPPERS IN LASTED POSITION

Filed May 17, 1932

Fig. 1.

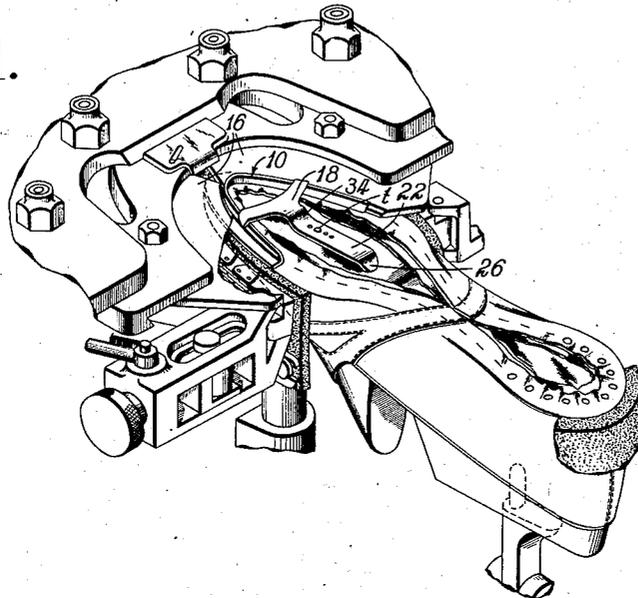


Fig. 2.

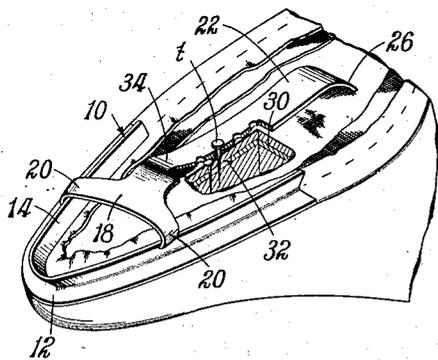


Fig. 5.

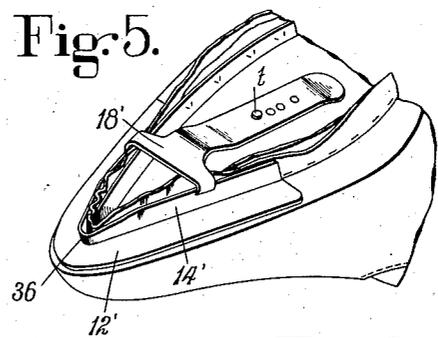


Fig. 3.

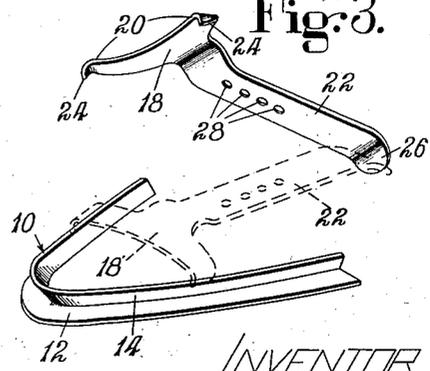
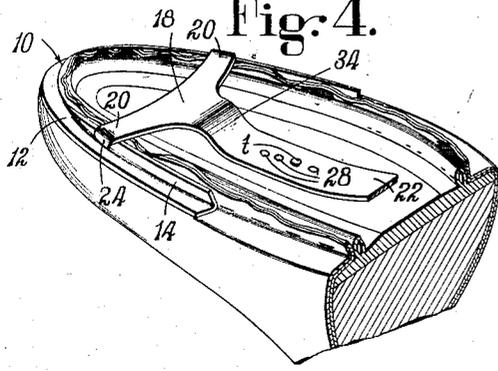


Fig. 4.



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# UNITED STATES PATENT OFFICE

2,004,239

## MEANS FOR HOLDING SHOE UPPERS IN LASTED POSITION

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Application May 17, 1932, Serial No. 611,900

37 Claims. (Cl. 12—107)

This invention relates to means for use in the manufacture of shoes for holding the uppers in lasted position until conditions are such that no extraneous holding means is needed by reason, for example, of the setting of cement used in the lasting operation or, in lasting the toes of some kinds of shoes, by reason of the hardening of box toe stiffening material in the uppers. The invention is herein illustrated as applied to the lasting of the toe ends of shoes, but it is to be understood that it is not thus limited, but is likewise applicable to the lasting of the heel ends or other portions. It is also applicable to the lasting of shoes of various kinds, including those in which the margin of the upper is lasted in substantially parallel relation to the bottom of the last over an insole or other shoe bottom part (hereinafter frequently referred to generically as the "sole") and those in which it is lasted with a portion thereof upstanding against a lip or shoulder on the sole, and it is further herein illustrated by reference to the manufacture of shoes of both these general types.

For the purposes in view the invention provides a novel upper-holding device so constructed as to adapt it to be easily and quickly applied and fastened to a shoe and readily removed therefrom, and also so constructed as to apply firm and substantially uniform pressure to all portions of the upper upon which it acts. As herein illustrated, with particular reference to end lasting, the device comprises an upper-holding portion formed to extend around an end of the shoe bottom over the margin of the sole and another portion constructed for attachment to the shoe in a novel relation to the upper-holding portion by fastening means penetrating the sole, this other portion, in the construction shown, comprising an arm arranged to fulcrum upon the sole at one end to serve as a lever for pressing the upper-holding portion of the device firmly upon the upper through force applied to the arm between its ends by the fastening means. As further herein illustrated, the arm is resilient so as to be sprung toward the sole by the fastening means and thus to maintain the upper-holding portion of the device under spring pressure. In the construction shown the upper-holding portion of the device and the other portion above referred to comprise separate members, i. e., members normally unconnected with each other, one formed to act as a clamp upon the other at the sides of the shoe bottom, although it is to be understood that in various novel aspects the invention is not limited to

separate members. Preferably, the clamp member is arranged to engage the upper-holding member in locations substantially midway between the front and rear ends of the latter and is further constructed for attachment to the shoe substantially midway between the opposite side edges of the shoe bottom, thus substantially equalizing the pressures applied to the upper at the opposite sides of the shoe bottom and as between the front and rear end portions of the upper-holding member. In accordance with still another object of the invention there is provided a construction such as to permit the device to be readily fastened to a last having a metal bottom plate at the forepart by a fastening driven through the hole with which such a plate is customarily provided to receive a tack that fastens the insole to the last.

The novel features of the invention, including various novel details of construction and combinations of parts, will now be more particularly described by reference to the accompanying drawing and pointed out in the claims.

In the drawing,

Fig. 1 is a perspective view illustrating how an upper-holding device constructed in accordance with this invention may be conveniently applied to the toe of a shoe by the aid of the toe-embracing wipers of a bed-lasting machine, the shoe shown being one of that type in which the margin of the upper is lasted inwardly over an insole in generally parallel relation to the last bottom;

Fig. 2 is a perspective view of the forepart of the shoe with the upper-holding device in position thereon, parts being broken away to illustrate more clearly how the device is fastened to the shoe and last;

Fig. 3 is a perspective view showing parts of the device in separated relation;

Fig. 4 illustrates the use of the device at the toe end of a shoe of the welt type in which a portion of the margin of the upper is lasted against a lip on the insole; and

Fig. 5 shows an alternative form of device applied to the toe end of a shoe of a different kind provided with a lip on the insole.

The form of upper-holding device illustrated in Figs. 1 to 4, inclusive, comprises an upper-holding member 10 which may be conveniently made of sheet metal and is substantially U-shaped to adapt it to extend around the toe end of the shoe bottom in engagement with the upper over the margin of the sole, this member being angular in cross section to provide an upper-engaging portion 12 arranged to face the bottom

of the last over a substantial area and an upstanding portion or flange 14 in angular relation to the portion 12, this flange being shown as inclined outwardly over the portion 12 at an acute angle to the latter. The member is thus adapted to be conveniently applied to a shoe by aid of the toe-embracing wipers 16 (Fig. 1) of a bed-lasting machine such as commonly used in lasting the toes of shoes, the wipers engaging the upstanding flange 14 to position the member in proper relation to the shoe and, it may be, to force it rearwardly over the shoe bottom in wiping contact with the upper, and engaging the portion 12 of the member to press it firmly down upon the upper. The flange 14 further assists in rendering the member 10 substantially inflexible in directions heightwise of the shoe, and its outwardly inclined relation to the portion 12 is of advantage in lasting a shoe of the welt type, for example, since ample room is afforded for the gathers or folds at the edge of the upstanding margin of the upper around the end of the toe.

To maintain the upper-holding member 10 in pressure-applying relation to the upper there is provided a clamp member 18 which also may be conveniently formed of sheet metal, this member having arms 20 arranged to extend laterally of the shoe in engagement with the upper edge of the flange 14 of the member 10 and having another arm 22 arranged to extend lengthwise of the shoe substantially midway between the opposite side edges of the shoe bottom. The arms 20 are provided with downturned lugs 24 arranged to hook over the upper edge of the flange 14 and to engage the flange at its outer side to assist in maintaining the two members in proper relation to each other. The arm 22 at its rear end is provided with a downturned portion 26 arranged to contact with the sole and to fulcrum thereon to adapt the arm to serve as a lever, through force applied thereto between its ends, to press the upper-holding member 10 down upon the shoe bottom. The arm 22 is also preferably resilient, to permit it to be sprung down toward the shoe bottom by the pressure applied between its ends and thus to hold the member 10 under spring pressure. As illustrated, the intermediate portion of the arm is thus sprung downwardly and held in that condition by a fastening tack *t* driven into the insole and last through one of a number of openings 28 provided in the arm with the head of the tack in clamping relation to the upper face of the arm. While the drawing illustrates the use of a single tack for this purpose, it will be understood that more than one tack may be used if desired and also that the arm may be fastened by any suitable means other than a tack. The openings 28 are so arranged as to adapt the device to be readily used on a last provided, as frequently in the manufacture of shoes of the type illustrated, with a metal bottom plate 30 (Fig. 2) having a hole 32 therein to receive a tack for fastening the insole to the last, since one at least of the openings will be in alignment with the hole 32, thus permitting the tack that holds the arm 22 to be driven through the same hole as the insole-holding tack. It will be evident that the downturned end 26 of the arm 22 spaces the rest of the arm a substantial distance above the sole, thus affording room for it to be sprung downwardly as described, the arm, however, being curved downwardly at 34 so that the portion thereof where the openings 28 are located will not be spaced too far above the shoe bottom.

The clamp member 18 is so constructed as to engage the member 10 in locations substantially midway between the front and rear ends of the latter, and it will accordingly be evident that, with the clamp member applied and fastened as above described, the pressures applied to the upper by the member 10 are substantially equalized at the opposite sides of the shoe bottom and also as between the front and rear ends of the member.

In the use of the device in lasting with cement the toe end of a shoe of the type shown in Figs. 1 and 2, the operator may, in accordance with the usual present practice in lasting shoes of this type, first wipe the marginal portion of the upper materials around the toe inwardly over the insole, and thereafter trim the lining and the toe box back substantially or nearly to the edge of the insole and apply cement to the margin of the upper. After then wiping the margin of the upper inwardly over the insole a second time the operator withdraws the wipers substantially to the edge of the shoe bottom and places the upper-holding member 10 upon the upper, thereafter advancing and closing the wipers over the portion 12 and against the flange 14 of the upper-holding member to position the member in proper relation to the shoe and it may be also to force it somewhat rearwardly over the shoe bottom in wiping engagement with the upper. By downward pressure of the wipers upon the portion 12 of the member, effected by the usual treadle with which bed-lasting machines are provided, the operator forces the member firmly down upon the shoe bottom. While holding the member 10 thus pressed against the shoe he then applies the clamp member 18 in the position illustrated in Fig. 1 and drives the tack *t* in the manner described to fasten this member to the shoe in clamping relation to the member 10. The upper-holding device is thereafter permitted to remain on the shoe, after the removal of the shoe from the machine, until the cement has set, and it is then easily removed from the shoe by inserting a suitable tool under the arm 22 and prying the arm upwardly to withdraw the tack from the shoe.

In lasting shoes of other kinds the upper-holding device will be applied and fastened in substantially the same manner as above described, although the character of the lasting operations performed before the device is applied to the shoe will vary according to the character of the shoe, as well as in accordance with the preferences of different manufacturers. In lasting the toe of a welt shoe, for example, (Fig. 4) the upper, lining and box toe stiffener may, in accordance with the usual practice, all be wiped inwardly and shaped by the wipers in the angle between the feather and the lip of the insole, after which the upper-holding device will be applied to the shoe by the aid of the wipers and fastened in the manner hereinbefore described, the arms 20 of the clamp member 18 extending over the lip of the insole. In this case the box toe stiffening material will be depended upon, after hardening, to maintain the toe portion of the upper in lasted position when the upper-holding device is removed.

Fig. 5 illustrates the use of a modified form of upper-holding device in the lasting of the toe of a shoe made in accordance with a method disclosed in a copending application of George Goddu, Serial No. 576,342, filed on November 20, 1931. In accordance with that method the mar-

Original portion of the upper is lasted inwardly over an insole having a comparatively wide feather portion and against an upstanding lip on the insole, the upper being fastened to the feather and lip by the use of cement. For holding the toe portion of the upper in lasted position on a shoe of that kind there is provided an upper-holding member having a portion 12' which is wider than the corresponding portion 12' of the form of device hereinbefore described to correspond to the greater width of the feather of the insole, and having an upstanding flange 14' which is perpendicular to the portion 12' so as to press the upper closely against the lip of the insole throughout the height of the lip to assist in cementing it properly to the lip, this flange being reduced in height at 36 at the extreme end of the toe to allow more room for the upper portion of the gathers or folds in the margin of the upper at the end of the toe. This upper-holding member is fastened to the shoe by a clamp member 18' which does not differ in any substantial respect from the construction hereinbefore described.

When the device described is used in lasting a shoe provided with a lip or shoulder on the sole member the downturned lugs 24 on the clamp member have the additional useful function of preventing any forward displacement of the upper-holding member along the shoe bottom, since the two arms of the substantially U-shaped upper-holding member usually diverge somewhat from each other, thereby insuring that this member will be held in position to maintain adequate pressure against that portion of the margin of the upper that lies against the lip or shoulder of the sole.

While Fig. 1 shows a shoe in which the heel-end portion of the upper is lasted with tacks, it will be understood that an upper-holding device constructed substantially as shown and described may be used in lasting the heel end of a shoe when cement is used to hold the heel end of the upper in lasted position, as is sometimes the practice.

The invention having thus been described, what is claimed as new and what it is desired to secure by Letters Patent of the United States is:

1. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to engage the upper over the margin of the sole, and another portion arranged to fulcrum on the sole to serve as a lever for pressing said upper-holding portion upon the upper toward the bottom of the last, said other portion being constructed for attachment to the shoe by fastening means penetrating the sole.

2. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to engage the upper over the margin of the sole, and another portion comprising an arm arranged to fulcrum on the sole at one end to serve as a lever for pressing said upper-holding portion upon the upper toward the bottom of the last, said arm being constructed for attachment to the shoe between its ends by fastening means penetrating the sole.

3. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to engage the upper over the margin of the sole, and another portion comprising a resilient arm arranged to fulcrum on the sole to serve as a lever for pressing said upper-holding portion upon the upper toward the bottom of the last and to be sprung to-

ward the bottom of the last by fastening means applied to hold the device on the shoe.

4. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to engage the upper over the margin of the sole at the opposite sides of the shoe bottom, and another portion comprising an arm arranged to extend lengthwise of the shoe substantially midway between the opposite side edges of the shoe bottom and to fulcrum on the sole to serve as a lever to press said upper-holding portion upon the upper toward the bottom of the last at both sides of the shoe bottom, said arm being constructed for attachment to the shoe by fastening means penetrating the sole.

5. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to engage the upper over the margin of the sole at the opposite sides of the shoe bottom, and another portion comprising a resilient arm arranged to extend lengthwise of the shoe substantially midway between the opposite side edges of the shoe bottom and to fulcrum on the sole at one end to serve as a lever to press said upper-holding portion upon the upper toward the bottom of the last at both sides of the shoe bottom, said arm being constructed for attachment to the shoe by fastening means applied between its ends and holding it sprung toward the bottom of the last.

6. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding portion formed to extend around an end of the shoe bottom over the margin of the sole, and another portion comprising an arm arranged to extend lengthwise of the shoe and to rest on the sole in one location, said arm being constructed for attachment to the shoe in another location by fastening means penetrating the sole to maintain the upper-holding portion of the device under pressure toward the bottom of the last.

7. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding portion formed to extend around an end of the shoe bottom over the margin of the sole, and another portion comprising an arm arranged to extend lengthwise of the shoe and to fulcrum on the sole at one end to serve as a lever for pressing said upper-holding portion of the device down upon the shoe bottom, said arm being constructed for attachment to the shoe between its ends by fastening means penetrating the sole to maintain it in pressing position.

8. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding portion formed to extend around an end of the shoe bottom over the margin of the sole, and another portion comprising an arm arranged to extend over the shoe bottom and having a downturned end to rest on the sole, said arm having an opening therein between its ends to receive a fastening driven through the sole and into the last to maintain the upper-holding portion of the device under pressure toward the bottom of the last.

9. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding portion formed to extend around an end of the shoe bottom over the margin of the

- sole, and another portion comprising an arm arranged to extend lengthwise of the shoe in spaced relation to the sole and provided with a downturned end to fulcrum on the sole and adapt it to serve as a lever for pressing the upper-holding portion of the device down upon the shoe bottom, said arm being constructed for attachment to the shoe by fastening means applied thereto between its ends.
10. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to extend around an end of the shoe bottom over the margin of the sole, and another portion comprising a resilient arm arranged to extend over the shoe bottom and to rest on the sole in one location, said arm being constructed for attachment to the shoe in another location by fastening means holding it sprung toward the bottom of the last to maintain the upper-holding portion of the device in pressure-applying relation to the upper.
11. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to extend around an end of the shoe bottom over the margin of the sole, and another portion comprising a resilient arm arranged to extend over the shoe bottom with an end thereof resting on the sole, said arm having an opening therein between its ends to receive a fastening driven into the shoe bottom and holding it sprung toward the sole to maintain the upper-holding portion of the device in pressure-applying relation to the upper.
12. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding portion formed to extend around an end of the shoe bottom over the margin of the sole, and another portion comprising a resilient arm arranged to extend lengthwise of the shoe and having a downturned end to fulcrum on the sole, said arm being constructed for attachment to the shoe between its ends by fastening means penetrating the sole and holding it sprung toward the bottom of the last to maintain the upper-holding portion of the device in pressure-applying relation to the upper.
13. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to engage the upper over the margin of the sole, and another member separate from said upper-holding member for engaging the latter to clamp it upon the upper toward the bottom of the last, said other member being constructed for attachment to the shoe by fastening means separate therefrom and penetrating the sole.
14. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to engage the upper over the margin of the sole, and another member separate from said upper-holding member for engaging the latter to clamp it upon the upper toward the bottom of the last, said other member having an opening therein to receive a fastening driven into the shoe bottom to fasten it in clamping position.
15. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to engage the upper over the margin of the sole, and another member separate from said upper-holding member for clamping the latter upon the upper toward the bottom of the last, said other member comprising a resilient arm arranged to engage the sole at one portion thereof and constructed for attachment to the shoe at another portion thereof by fastening means holding it sprung toward the bottom of the last.
16. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to engage the upper over the margin of the sole, and another member separate from said upper-holding member for clamping the latter upon the upper toward the bottom of the last, said other member comprising a resilient arm having a downturned end arranged to engage the sole and having an opening therein between its ends to receive a fastening driven into the shoe bottom to hold it sprung toward the sole in clamping position.
17. A device for holding an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to engage the upper over the margin of the sole, and another member separate from said upper-holding member for clamping the latter upon the upper toward the bottom of the last, said other member comprising a substantially U-shaped upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a clamp member separate from said upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom to hold it pressed against the upper toward the bottom of the last, said clamp member being constructed for attachment to the shoe by fastening means penetrating the sole.
18. A device for holding an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a clamp member separate from said upper-holding member and having arms arranged to extend laterally of the shoe for engaging the upper-holding member at the opposite sides of the shoe bottom to clamp it down upon the shoe bottom and having also an arm arranged to extend lengthwise of the shoe with an opening therein to receive a fastening driven into the shoe bottom to maintain it in clamping position.
19. A device for holding an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member for engaging the upper over the margin of the sole around an end of the shoe bottom, and a clamp member separate from said upper-holding member and having arms arranged to extend laterally of the shoe for engaging the upper-holding member at the opposite sides of the shoe bottom to clamp it down upon the shoe bottom and having also an arm arranged to extend lengthwise of the shoe with an opening therein to receive a fastening driven into the shoe bottom to maintain it in clamping position.
20. A device for holding an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member for engaging the upper over the margin of the sole around an end of the shoe bottom, and a clamp member separate from said upper-holding member and having arms arranged to extend laterally of the shoe for engaging the upper-holding member at the opposite sides of the shoe bottom to clamp it down upon the shoe bottom and having also an arm arranged to extend lengthwise of the shoe with an opening therein to receive a fastening driven into the shoe bottom to maintain it in clamping position.
21. A device for holding an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member for engaging the upper over the margin of the sole around an end of the shoe bottom, and a clamp member separate from said

upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom to hold it pressed against the upper toward the bottom of the last, said clamp member having downturned lugs thereon for engaging the upper-holding member at its outer side to assist in maintaining the members in proper relation to each other and having also an opening therein to receive a fastening penetrating the sole to maintain it in clamping position.

22. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a resilient clamp member separate from said upper-holding member arranged to engage the latter at the opposite sides of the shoe bottom and to be sprung toward the bottom of the last to maintain the upper-holding member in pressure-applying relation to the upper.

23. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a clamp member separate from said upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom, said clamp member having a resilient portion arranged to extend lengthwise of the shoe with an opening therein to receive a fastening driven into the shoe bottom to hold it sprung toward the sole in pressure-applying relation to the upper-holding member.

24. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a clamp member separate from said upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom to hold it pressed against the upper toward the bottom of the last, said clamp member having an arm arranged to extend lengthwise of the shoe with one end in contact with the sole when the clamp member is first placed on the shoe and constructed for attachment to the shoe between its ends by fastening means penetrating the sole.

25. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a clamp member separate from said upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom to hold it pressed against the upper toward the bottom of the last, said clamp member having an arm arranged to extend lengthwise of the shoe and provided with a downturned end to engage the sole and space the rest of the arm from the sole, the arm being provided between its ends with an opening arranged to receive a fastening driven into the shoe bottom to maintain the clamp member in clamping position.

26. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a clamp member separate from said upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom to hold it

pressed against the upper, said clamp member having a resilient arm arranged to extend lengthwise of the shoe with one end in contact with the sole when the clamp member is first placed on the shoe and arranged to be sprung toward the bottom of the last to maintain the upper-holding member in upper-holding position.

27. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole, and a clamp member separate from said upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom to hold it pressed against the upper, said clamp member having a resilient arm arranged to extend lengthwise of the shoe with one end in contact with the sole when the clamp member is first placed on the shoe and constructed between its ends for attachment to the shoe by a fastening driven into the shoe bottom to hold it sprung toward the bottom of the last in clamping relation to the upper-holding member.

28. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member formed to engage the upper over the margin of the sole around an end of the shoe bottom, and a clamp member separate from said upper-holding member and provided with arms arranged to extend laterally of the shoe to engage the upper-holding member at the opposite sides of the shoe bottom, said clamp member having also a resilient arm arranged to extend lengthwise of the shoe and provided with a downturned end to engage the sole and space the rest of the arm normally from the sole, said arm being provided between its ends with an opening arranged to receive a fastening driven into the shoe bottom to hold its intermediate portion sprung toward the bottom of the last and thereby to maintain firm pressure upon the upper-holding member.

29. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member formed to engage the upper over the margin of the sole around an end of the shoe bottom, and a clamp member separate from said upper-holding member and constructed to engage the latter at the opposite sides of the shoe bottom; said clamp member having an arm arranged to extend lengthwise of the shoe and to serve as a lever fulcrumed on the sole to press the upper-holding member upon the upper, the arm being constructed for attachment to the shoe by fastening means penetrating the sole.

30. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member formed to engage the upper over the margin of the sole around an end of the shoe bottom, and a clamp member separate from said upper-holding member and having portions arranged to extend laterally of the shoe in engagement with the upper-holding member in locations substantially midway between the front and rear ends of the latter at the opposite sides of the shoe bottom, said clamp member also having an arm arranged to extend lengthwise of the shoe substantially midway between the opposite side edges of the shoe bottom and having an opening therein to receive a fastening driven

into the shoe bottom to hold it in clamping position.

31. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole and having a portion arranged to face the bottom of the last in engagement with the upper and an upstanding flange, and a clamp member separate from said upper-holding member and constructed for engagement with said upstanding flange at the opposite sides of the shoe bottom to clamp the upper-holding member down upon the shoe bottom.

32. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole and having a portion arranged to face the bottom of the last in engagement with the upper and an upstanding flange, and a clamp member separate from said upper-holding member for clamping the latter down upon the shoe bottom, said clamp member being constructed to engage the upper edge of said upstanding flange and having lugs for engaging the flange on its outer side to assist in maintaining the members in proper relation to each other.

33. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising a substantially U-shaped upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole and having a portion arranged to face the bottom of the last in engagement with the upper and an upstanding flange, and a clamp member separate from said upper-holding member for clamping the latter down upon the shoe bottom, said clamp member having arms arranged to extend laterally of the shoe to engage said upstanding flange and having also an arm arranged to extend lengthwise of the shoe and constructed for attachment to the shoe by fastening means penetrating the sole.

34. A device for holding an end portion of an upper in lasted relation to a sole on a last, said device comprising an upper-holding member formed to extend around an end of the shoe bottom over the margin of the sole and having a portion arranged to face the bottom of the last in engagement with the upper and an upstanding flange substantially perpendicular to said

bottom-facing portion for pressing the upper against a lip on the sole, and clamping means separate from said upper-holding member arranged to engage the upper edge of said flange to clamp the member down upon the shoe bottom, said clamping means being constructed to extend laterally of the shoe from one side portion of the shoe bottom to the other side portion thereof.

35. A device for holding the toe portion of an upper in lasted position over an insole on a last provided on the bottom of its forepart with a metal plate having a hole therein to receive an insole-holding tack, said device having a portion constructed for holding engagement with the upper over the margin of the insole around the toe end of the shoe bottom and another portion adjustable relatively to said upper-engaging portion and having an opening therein arranged to aline with said hole in the last-bottom plate to receive a fastening driven through said hole and into the last to fasten the device on the shoe.

36. A device for holding the toe portion of an upper in lasted position over an insole on a last provided on the bottom of its forepart with a metal plate having a hole therein to receive an insole-holding tack, said device being constructed for holding engagement with the upper over the margin of the insole around the toe end of the shoe bottom and having a rearwardly extending arm arranged to rest on the insole at its rear end and provided between its end portions with an opening arranged to aline with said hole in the last-bottom plate to receive a fastening driven through said hole and into the last to fasten the device on the shoe.

37. A device for holding the toe portion of an upper in lasted position over an insole on a last provided on the bottom of its forepart with a metal plate having a hole therein to receive an insole-holding tack, said device comprising a substantially U-shaped upper-holding member formed to engage the upper around the toe over the margin of the sole, and a clamp member separate from said upper-holding member for clamping the latter down upon the shoe bottom, said clamp member having an opening therein arranged to aline with said hole in the last-bottom plate to receive a fastening driven through said hole and into the last to fasten the clamp member in clamping position.

ISABELLE W. GODDU,

*Executrix of the Will of George Goddu, Deceased.*