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WELT HOLDER FOR SEWING MACHINES.

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958,297.

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Fig. 1.

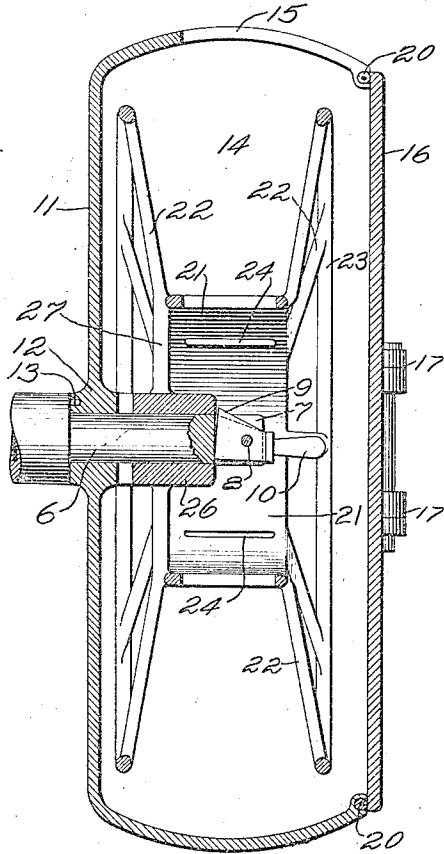
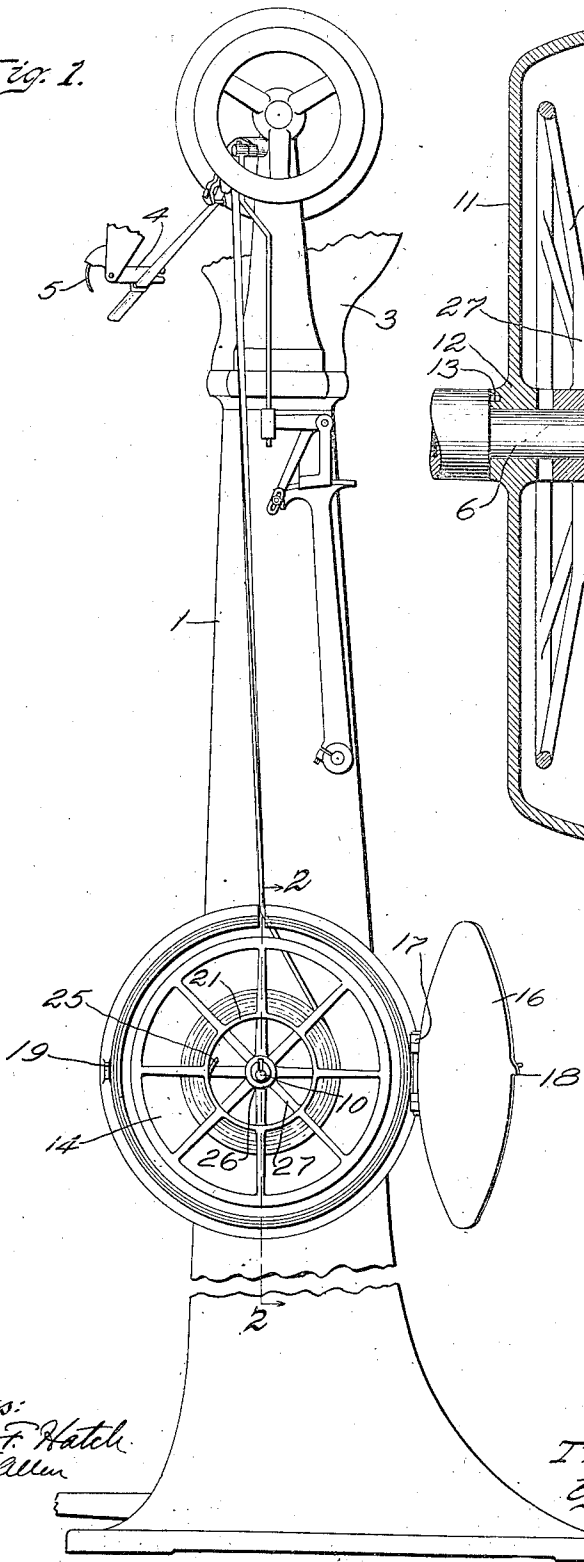


Fig. 2.

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UNITED STATES PATENT OFFICE.

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WELT-HOLDER FOR SEWING-MACHINES.

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To all whom it may concern:

Be it known that I, THOMAS G. PLANT, a citizen of the United States, residing at Boston, in the county of Suffolk and State of

Massachusetts, have invented an Improvement in Welt-Holders for Sewing-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like numerals on the drawings representing like parts.

The invention to be hereinafter described relates to welt holders for sewing machines and more particularly to that type of such machines for attaching the welt or like strip of leather to the upper and insole of a welted boot or shoe.

In order that the sewing operation may be properly carried into effect, it is necessary that the welt or other like strip be tempered or made pliable by treatment with liquid, usually water. Such welt in the form of a long strip is usually wound upon a reel and supported in suitable position convenient to the sewing instrumentalities, the reel and its contained welt having been previously soaked in water or the like. When the operator stops the sewing operation or leaves the machine for a short period as, for instance, during the dinner hour or during the suspension of work overnight, the welt becomes dried and, before the sewing operation can be resumed, it must be re-tempered.

With these general considerations in view, the aim of the present invention is to provide means for maintaining the welt in a tempered or pliable condition ready for the sewing operation, all as will more fully appear from the hereinafter described embodiment of the invention, the true scope thereof being definitely pointed out in the claims.

In the drawings: Figure 1 is a side elevation of a sufficient portion of a sewing machine, known as a welter, to make clear the application of the present invention thereto; and Fig. 2 is an enlarged section on the line 2—2 of Fig. 1.

In the drawings the main supporting frame may consist of a column 1 surmounted by a head 3 carrying the usual driving shaft and sewing instrumentalities which, forming no part of the present invention, need not be herein further described, such parts be-

ing well understood by those skilled in the art. The said head as diagrammatically shown in Fig. 1 also supports a welt guide 4 and an awl 5.

Projecting from the supporting frame or column 1 is a shaft 6 shown as a stud shaft, the end of said shaft being bifurcated as at 7, the said bifurcated end containing a pivot pin 8 for a catch 9 operative by a handle 10, said shaft and catch with the operating connections being preferably contained within a casing section 11, as best shown in Fig. 2.

The casing section 11 is supported by the main frame and preferably is provided with a bearing 12 to engage the shaft 6, said casing being prevented from rotation on the stud shaft 6 by means of a pin 13 secured to the main frame and projecting into a suitable opening in the portion 12 of the casing section.

The casing section 11 is of such character and form as to provide a suitable inclosure for a welt supporting reel 14, said casing being provided at one portion with a passageway or slot 15 for the withdrawal of the welt from the reel on its passage to the sewing instrumentalities. Preferably at its outer face the casing 11 is provided with a door 16 connected thereto by suitable hinged connections 17, whereby the door may be readily opened and closed. The door at its portion opposite the hinge may be provided with a catch 18 to engage the part 19, Fig. 1, on the casing section 11, so that when said door is closed, the parts 18 and 19 will engage and retain the door in such position.

As hereinbefore pointed out, one of the purposes of the present invention is to maintain the welt in a tempered or moist condition ready for the sewing operation and while the casing and door, with the passage 15 for the welt, may serve this purpose, it is found expedient to provide the door opening of the casing with a rubber packing or gasket 20, so that when the door 16 is closed, there will be no circulation of air through the casing, the passageway 15 being nearly closed by the welt extending therethrough, as indicated in Fig. 1.

The reel 14 is preferably formed by a hub portion 21 from which project the skeleton spider-arms 22 connected at their

outer ends by the circular rim 23, the hub 21 being provided with a series of slots 24 through which the end of the welt may be passed, as indicated at 25 in Fig. 1, and held as the welt is wound upon the reel. These slots not only afford a means for holding the end of the welt preparatory to this winding upon the reel but likewise provide free passageways for moisture to the central portion or mass of the wound welt. The skeleton form of the side flanges also affords means for the ready passage of the moisture between the layers of welt wound upon the reel.

Supported within the barrel 21 is the hollow hub 26 connected to said barrel by the skeleton spider arms 27, said hollow hub 26 being adapted to engage and rotate upon the stud 6 supported from the main frame or upright 1, the bore of said hub being of a size to pass over the catch 9 when the latter is in the dotted line position as shown in Fig. 2. The handle 10 of this catch serves as a weight whereby after the welt supporting reel has been moved onto the shaft 6, it will tilt the catch upon its pivot 8 and hold the reel in proper position on said shaft 6. In the construction shown, also, this action of the catch 9 on the hub of the reel will hold the casing section 11 in position, as will be readily understood.

From the construction described, it will be clear that the casing section 11 affords a moisture retaining closure for the reel and its supported welt whereby the latter is maintained in a tempered and pliable condition for an indefinite length of time, quite regardless of whether the machine be operated or not. It will likewise be apparent in the preferred form of construction that the casing section 11 and its door 16 afford a space into which the shaft 6 projects, said shaft and its supported reel being maintained entirely within said casing section. The narrow slit or passageway 15 for the passage of the welt to the sewing instrumentalities, being the only opening into the casing section affords little or no chance for evaporation of moisture contained within the casing, and the skeleton form of reel with its barrel and hub, as specified, afford a ready means for the circulation of vapor or moisture through the mass of welt wound thereon.

What is claimed is:

1. A moisture retaining welt holder for sewing machines for maintaining the welt in moist or tempered condition for presentation to the sewing instrumentalities, comprising a supporting standard, a reel having a welt supporting portion on which the welt is wound, said welt supporting portion having a slot through which the end of the welt

is passed and by which said end is held, a moisture retaining casing surrounding said reel and provided with a passageway for the delivery of the moist welt as it is presented to the sewing instrumentalities and having an opening for the introduction of the reel and moist welt, and a door for closing said opening to maintain the welt in moist and pliable condition, the said reel and casing being sustained by said standard.

2. A welt holder for sewing machines comprising a reel on which the tempered welt is wound, a shaft for supporting said reel, said shaft having a reel retaining catch, a casing section having a passageway for the passage of the welt to the sewing machine and an opening for the introduction and removal of the reel, and a cover for said opening, said reel and supporting shaft being contained within the space defined by the casing section and cover to maintain the welt in moist and pliable condition.

3. A moisture retaining welt holder for sewing machines, comprising a supporting frame, a shaft sustained thereby, a casing section supported by said frame and having a door for closing the entrance to said casing section and a passageway for the withdrawal of the welt, a reel adapted to be supported by said shaft within the casing section, and a catch for holding the reel on said shaft, said reel being contained within the space defined by the casing section and door to maintain the supported welt in moist and pliable condition.

4. A moisture retaining welt holder for sewing machines comprising a supporting frame, a shaft sustained thereby, a casing section removably supported by said shaft and having a door for closing the entrance to said casing section and a passageway for the passage of the welt to the sewing machine, a welt supporting reel having a hollow barrel on which the welt is wound, and a hollow hub to engage the said shaft, said casing and door forming a moisture retaining envelop for the reel to maintain the welt in moist and pliable condition.

5. A moisture retaining welt holder for sewing machines comprising a supporting frame, a casing section supported thereby, a shaft projecting into said casing, a door for closing one portion of the casing, said casing affording a moisture retaining envelop for a mass of welt, a reel having a welt supporting barrel, and a reel supporting hub adapted to be sustained by said shaft.

6. A moisture retaining welt holder for sewing machines comprising a main supporting frame, a casing section supported thereby and having a passageway for the passage of a welt to the sewing machine, said casing section affording a moisture re-

5 taining envelop for a mass of welt, a door
for the introduction of said welt to the in-
terior of the casing, and a packing inter-
posed between the door opening and door
substantially as and for the purpose de-
scribed.

In testimony whereof, I have signed my

name to this specification, in the presence of
two subscribing witnesses.

THOMAS G. PLANT.

Witnesses:

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