July 26, 1932. A. JANALIK 1,869,103

LEGGING

Filed Dec. 12, 1930

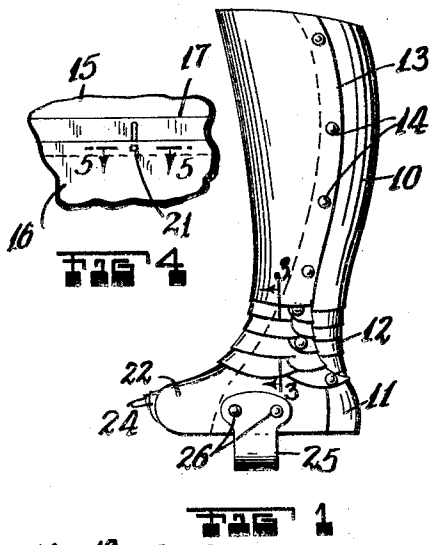


FIG. 1

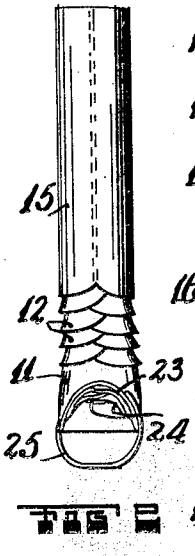


FIG. 2

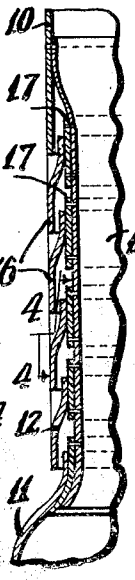


FIG. 3

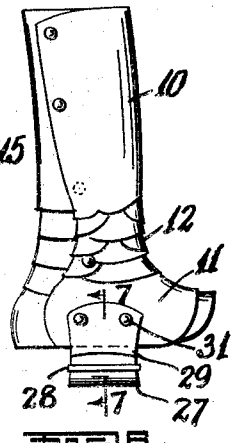


FIG. 4

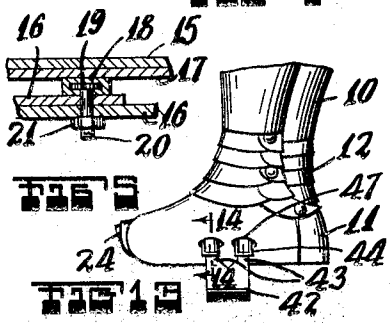


FIG. 5

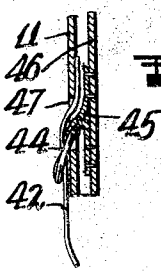


FIG. 6

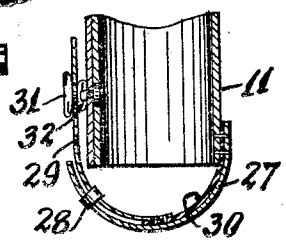


FIG. 7

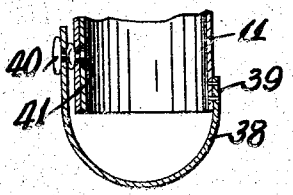


FIG. 8

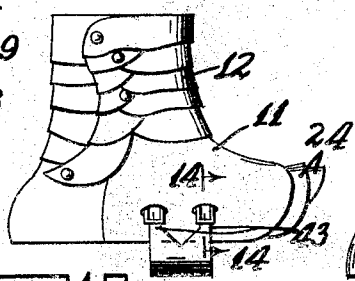


FIG. 9

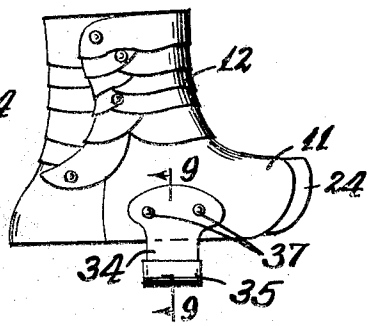


FIG. 10

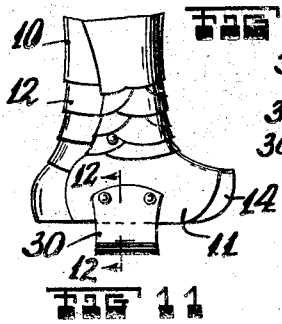


FIG. 11

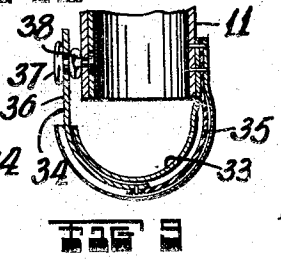


FIG. 12

INVENTOR
Alois Janalik
BY Zoltan J. Polachek
ATTORNEY

Patented July 26, 1932

1,869,103

UNITED STATES PATENT OFFICE

ALOIS JANALIK, OF NEW YORK, N. Y.

LEGGING

Application filed December 12, 1930. Serial No. 501,823.

This invention relates to new and useful improvements in leggings.

The invention has for an object the provision of a legging having a rigid upper portion connected with a flexible ankle portion which in turn is connected with a rigid lower portion.

It is general to construct leggings from stiff leather with no provision for bending at the ankle so that during walking wrinkling necessarily occurs. This wrinkling causes the legging to look very untidy besides unduly shortening its life. The wrinkling causes cracking and then the legging is ruined.

It is another object of this invention to construct the flexible ankle portion with a soft sheet of material firmly connected between the rigid upper and lower portions and providing a plurality of stiff scale members attached upon the soft sheet material in scale formation so that they are capable of moving relative to each other. Such an arrangement presents a very attractive legging, which when viewed from the exterior discloses all stiff material but at the same time it is possible for it to flex at the ankle.

A still further object of this invention is to arrange the vamp portion of the lower portion of the legging flexible so as not to interfere with the bending of one's toes during walking. It is particularly proposed to provide a soft sheet of material attached upon the lower portion in the vicinity of the vamp and the attachment of stiff scale members upon the soft material.

It is a still further object of this invention to provide various arch straps as means for attaching the legging upon the foot of a wearer.

A still further object of this invention is to construct a legging of the class mentioned which is of simple durable construction, dependable in use and efficient in action, and which can be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing, forming a material part of this disclosure:—

Fig. 1 is a side elevational view of a legging constructed acording to this invention.

Fig. 2 is a front elevational view of Fig. 1.

Fig. 3 is a fragmentary enlarged sectional view taken on the line 3—3 of Fig. 1.

Fig. 4 is a fragmentary elevational view looking in the direction of the line 4—4 of Fig. 3.

Fig. 5 is a fragmentary enlarged detailed sectional view taken on the line 5—5 of Fig. 4.

Fig. 6 is a side elevational view of a legging constructed according to this invention, shown provided with a modified form of arch strap.

Fig. 7 is a fragmentary enlarged sectional view taken on the line 7—7 of Fig. 6.

Fig. 8 is a side elevational view of a legging in the form of a spat constructed according to this invention and shown with the modified form of arch strap.

Fig. 9 is a fragmentary sectional view taken on the line 9—9 of Fig. 8.

Fig. 10 is a side elevational view similar to Fig. 8, but illustrating another modified form of arch strap.

Fig. 11 is another side elevational view of a legging with a still further modified form of strap.

Fig. 12 is a fragmentary sectional view taken on the line 12—12 of Fig. 11.

Fig. 13 is a side elevational view of another legging with an arch strap similar to the one shown in Fig. 10.

Fig. 14 is an enlarged fragmentary sectional view taken either on the lines 14—14 of Figs. 13 or 10.

In Figs. 1 to 5 inclusive, a legging has been illustrated which has a stiff upper sheet portion 10, a stiff lower sheet portion 11, and a flexible ankle portion 12 connecting said portions 10 and 11. The sheet portion 10 is in the form of the wearer's leg for covering the calf portion and is opened at the side 13 with a plurality of snap fasteners 14 arranged along the adjacent edges of the opening so as

to close the legging upon one's foot. The stiff lower portion 11 is in the shape of a shoe upper so as to cover a portion of the vamp of the shoe, the sides of the shoe, and a portion of the heel. The lower portion 11 is also opened at one side corresponding with the opening 13 so that this portion may be engaged upon one's shoe.

The flexible ankle portion 12 is in the form of a flexible lining 15 which is attached along its top edge onto the stiff sheet upper portion 13 and along its lower edge onto the sheet lower portion 11. A plurality of stiff scale members 16 are attached at their points adjustably upon the flexible lining 15. These scale members are arranged to overlap each other in shingle or scale fashion. The adjustment of the scale members is accomplished by transverse straps 17 rigidly attached onto the lining 15 and supporting a plurality of vertical guide members 18. Slides 19 work in these guide members and have projecting studs 20 which engage through apertures in the corners of the scale members 16. Nuts 21 are engaged upon the studs 20 and when tightly drawn down serve to hold the scale members in various adjusted positions.

After some use of the legging, it will be found that even though the scale members 16 are made from stiff material, such as stiff leather, sooner or later they will be cracked due to interengagement between the scale members while walking. Before these cracks work too far, it is proposed that the relative positions of the scale members be adjusted by loosening the nuts 21, changing their positions, and then again tightening the nuts. In the new adjusted positions, it will be found that the walking will cause different bends so as not to continue to work upon the weak portions of the scale members.

The vamp portion 22 of the lower portion 11 is also formed with a flexible arrangement so as to allow flexibility during walking. This is accomplished by a flexible sheet of material 23 attached within the vamp portion 22 and supporting a plurality of scale members 24. These scale members are sewed or otherwise attached upon the flexible member and normally project, but during walking upon the bending of one's foot they may slip in and out so as to allow such action. An arch strap 25 is attached upon one side of the lower portion 11 and at the other end is provided with snap fasteners 26 engageable in complementary members attached upon the other side of the portion 11 so that the legging may be strapped upon one's foot.

In Figs. 6 and 7 a modified form of strap has been illustrated for attaching the legging upon the foot. The upper portion of the legging is identical in construction to the one previously described. The strap is in the form of a strip guide cover 27 attached upon one side of the legging and extending partially over to the other side, and near the free side supporting a guide loop 28 through which a strap 29 passes. The strap 29 is of two sections, an inner elastic section 30 which is rigidly attached upon one side of the legging and a non-elastic strap which is provided with a snap fastener socket 31 engageable upon a snap fastener stud 32 on the other side of the legging.

In Figs. 8 and 9 another form of attachment strap has been illustrated, in which a tubular casing 33 is provided and attached at one of its ends upon one of the sides of the legging. Within this tubular member a strap 34 is arranged. This strap is formed of two sections, namely an inner elastic section 35 and a non-elastic section 36. The latter section projects from the tubular casing and carries a snap fastener 37 engageable upon a complementary fastener element 38 mounted upon the opposite side of the legging.

In Figs. 11 and 12 another form of strap has been illustrated which constitutes a non-elastic strap 38 attached at one of its ends 39 upon one side of the legging and the other end carrying snap fastener sockets 40 engageable in snap fastener studs 41 mounted on the other side of the legging.

In Figs. 10, 13 and 14 another modified form of strap has been illustrated, in which the strap indicated by reference numeral 42 is rigidly attached at one end on one side of the legging, and at the other end is formed into a pair of spaced fingers 43, each provided with a plurality of openings for receiving the latching tongues or buckles 44 mounted upon straps 45 attached upon a lining 46 used on the interior of the legging. The outer material of the legging is formed with apertures 47 allowing for the exposing of the buckles.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

1. A legging, comprising a stiff sheet upper portion, a stiff sheet lower portion, and a flexible ankle portion connecting said upper and lower portions, said flexible ankle portion being in the form of a flexible sheet connected at its top edge upon the bottom edge of the said upper portion and at its bottom edge upon the top edge of said lower portion, and a plurality of scale members attached upon said flexible sheet, said scale members overlapping each other and being arranged on the scale formation, means being also provided

for adjustably mounting the scale members so as to change their relative positions for the purpose described.

2. A legging, comprising a stiff sheet upper portion, a stiff sheet lower portion, and a flexible ankle portion connecting said upper and lower portions, said flexible ankle portion being in the form of a flexible sheet connected at its top edge upon the bottom edge of the said upper portion and at its bottom edge upon the top edge of said lower portion, and a plurality of scale members attached upon said flexible sheet, said scale members overlapping each other and being arranged on the scale formation, means being also provided for adjustably mounting the scale members so as to change their relative positions for the purpose described, said adjustable mounting being accomplished by guide members attached upon said flexible lining and supporting slides provided with projecting studs engaging through apertures in the points of said scale members, and nuts upon said studs to clamp the parts in the adjusted positions.

3. A legging, comprising a stiff sheet upper portion, a stiff sheet lower portion, and a flexible ankle portion connecting said upper and lower portions, said flexible ankle portion being in the form of a flexible sheet connected at its top edge upon the bottom edge of the said upper portion and at its bottom edge upon the top edge of said lower portion, and a plurality of scale members attached upon said flexible sheet, said scale members overlapping each other and being arranged on the scale formation, means being also provided for adjustably mounting the scale members so as to change their relative positions for the purpose described, comprising transverse straps rigidly attached on said flexible sheet, means for slidably supporting said scale members on straps, and means for holding said scale members in fixed adapted positions.

4. A legging, comprising a stiff sheet upper portion, a stiff sheet lower portion, and a flexible ankle portion connecting said upper and lower portions, said flexible ankle portion being in the form of a flexible sheet connected at its top edge upon the bottom edge of the said upper portion and at its bottom edge upon the top edge of said lower portion, and a plurality of scale members attached upon said flexible sheet, said scale members overlapping each other and being arranged on the scale formation, means being also provided for adjustably mounting the scale members so as to change their relative positions for the purpose described, comprising transverse straps rigidly attached on said flexible sheet, means for slidably supporting said scale members on straps, and means for holding said scale members in fixed adapted positions, said means for slidably supporting said scale members comprising guides fixed upon said straps, and studs slidably engaged in aid guides and supporting said scale members.

5. A legging, comprising a stiff sheet upper portion, a stiff sheet lower portion, and a flexible ankle portion connecting said upper and lower portions, said flexible ankle portion being in the form of a flexible sheet connected at its top edge upon the bottom edge of the said upper portion and at its bottom edge upon the top edge of said lower portion, and a plurality of scale members attached upon said flexible sheet, said scale members overlapping each other and being arranged on the scale formation, means being also provided for adjustably mounting the scale members so as to change their relative positions for the purpose described, comprising transverse straps rigidly attached on said flexible sheet, means for slidably supporting said scale members on straps, and means for holding said scale members in fixed adapted positions, comprising studs projecting from said straps and engaging through apertures formed in said scale members, and nuts threadedly engaging on said studs.

In testimony whereof I have affixed my signature.

ALOIS JANALIK.