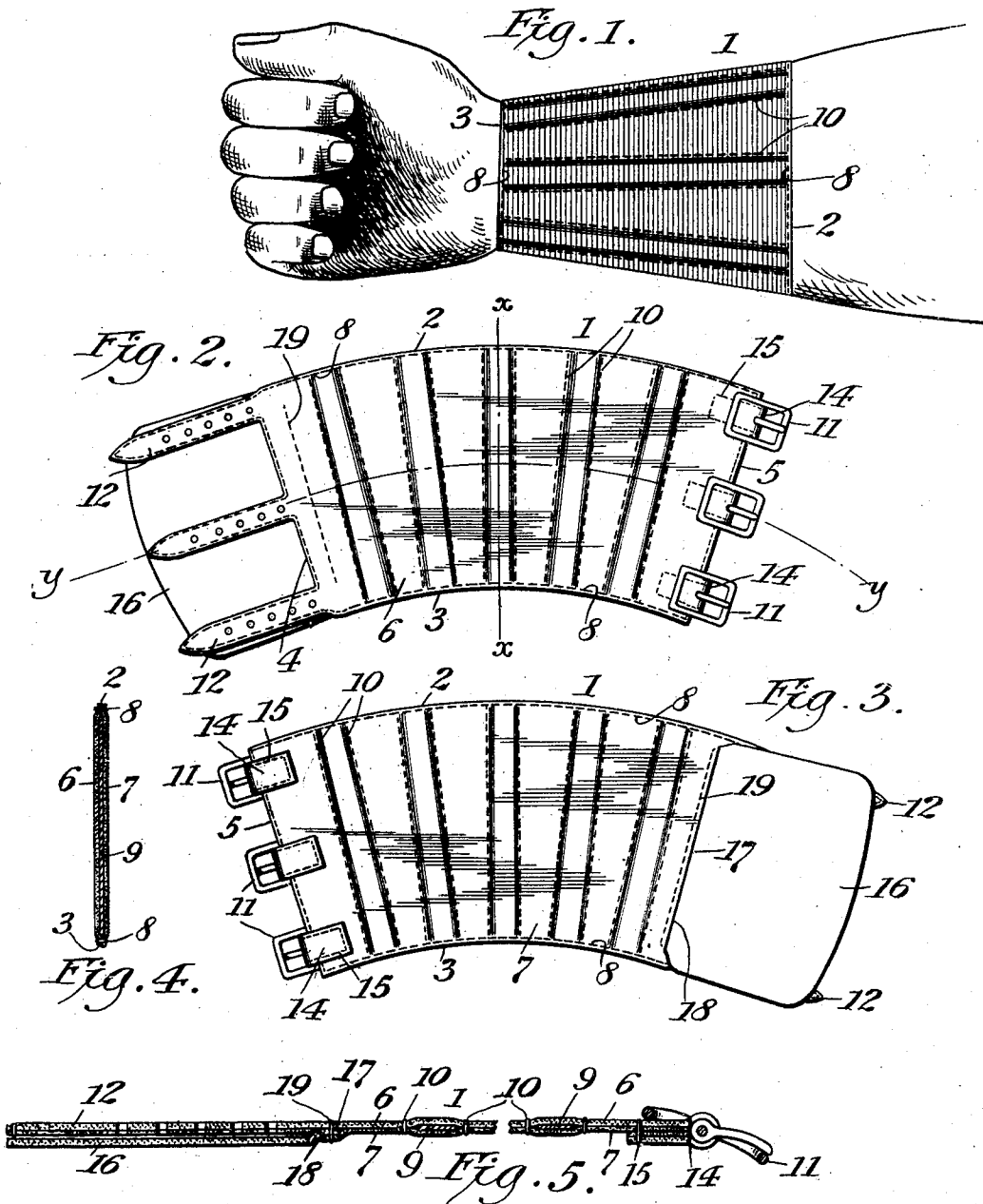


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WRISTBAND.
APPLICATION FILED NOV. 12, 1908.

937,769.

Patented Oct. 26, 1909.



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WRISTBAND.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY JAMES COLLIS, a citizen of the United States, and resident of Taunton, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Wristbands, of which the following is a specification.

My invention relates to wrist bands, and it has special relation to bands of this character which are designed for use in athletic sports.

The object of my invention is to provide an improved wrist band which will be effectively adaptable for use upon the wrists of athletes for strengthening and protective purposes, and which, while retaining its soft and smooth characteristics will be braced and stiffened so that it will definitely brace and compress the wrist and retain its normal operative structure without wrinkling and also be adjustable to various degrees of compression as desired.

A further object of my improvements is to provide a wrist band having the leading characteristics above set forth, but which will be exceedingly simple and inexpensive in construction and will furthermore possess advantages in point of ease and comfort, convenience, adaptability, effectiveness and general efficiency.

In the drawings—Figure 1 is a perspective view showing my improved wrist band in operative position upon the wrist. Fig. 2 is an outside face view of the device when opened. Fig. 3 is an inside face view, corresponding to Fig. 2. Fig. 4 is a detail transverse sectional view, taken on the line $x-x$, Fig. 3. Fig. 5 is a detail sectional view, taken on the line $y-y$, Fig. 3.

Corresponding parts in all the figures are denoted by the same reference characters.

Referring to the drawings, 1 designates the body of the device, which in its plan contour is so shaped that it will simulate a somewhat conical tubular inclosure when it surrounds the wrist of the wearer. In thus adapting the body of the device to the shape and characteristics of the wrist, the top edge, 2, of the body 1 is preferably curved longitudinally on a somewhat convex line, while the bottom edge, 3, is correspondingly curved longitudinally on a concave line, and the terminal edges, 4 and 5, respectively, extend on a straight convergent line from the top edge 2 to the bottom edge 3, whereby the

area of the body is larger at its top portion than at the bottom.

The body-portion 1 is constructed of soft pliable material, such as leather or a suitable fabric, and it comprises an outer or face strip, 6, preferably in a single piece, and also an inside face strip, 7, which preferably corresponds in shape and area to the outer face strip 6 and likewise is in a single piece. The inside face strip 7 contacts with the wrist of the wearer, and is therefore preferably constructed of softer material than the outer face strip 6, for instance chamois-skin or a soft fabric or material. The strips 6 and 7, constituting the soft pliable body of the device, are secured together at their corresponding edges, preferably by stitching, as at 8.

The body-portion 1 is provided with stiffening media, 9, conveniently arranged between the outer face strip 6 and the soft inside face strip 7 so that it does not directly contact with the wrist of the wearer. The stiffening media is preferably in the form of a series of strips extending approximately from the bottom edge 3 to the top edge 2 and in radial arrangement, as shown. The contour of the body-portion 1 as above described, with relation to the stiffening media 9 radiating in position from the bottom edge 3, brings the outermost elements of the media 9 in parallel position with relation to the convergent terminal edges 4 and 5 of the body 1 and affords a uniform positional arrangement and location of the stiffening media with respect to the taper of the wrist when the device is in the approximately conical shape which it assumes when placed in position upon the wrist of the wearer, and this relative construction and arrangement also distributes the stiffening media over the full surface area of the body-portion 1. The stiffening media may be secured inside the soft inner face strip 7 in any suitable manner, preferably by stitching, as at 10, through both the strips 7 and 6 and at the sides of the individual elements of the stiffening media 9.

At the meeting edges 4 and 5 of the body 1, fastening means are provided for securing the device in position. The fastening means preferably comprises buckles, 11, at one edge, engaged by straps, 12, at the other edge, whereby the degree of compression of the device upon the wrist can be conveniently adjusted as desired according to the condi-

tions and circumstances of use; and in the preferred arrangement of this fastening means integral extensions, 14, of the soft flexible body 1, are provided at the edge 5 and turned around and against the inner face strip 7, so that they surround a cross-bar of the buckle and thus secure the latter in position, the inner ends of said extensions 14 being secured in any suitable manner, preferably by stitching, as at 15, and at the opposite edge 4 the straps 12 are formed by integral extensions of the soft flexible body.

An interior flap, 16, is provided and extends beneath the fastening means at the meeting edges 4 and 5 of the body 1. This flap is constructed of soft pliable material, such as leather or a suitable fabric, and it is secured in position at one of its side edges. It is desirable, with the flap thus secured at its side edge, in a flexible wrist band of the character comprised in my invention, to have a smooth flat surface at the secured edge of the flap, for comfort in wearing and to prevent exposed edges at the interior surface of the band during the compression of the wrist. The flap 16 is therefore preferably secured by having its inner edge, 17, inserted in a slit, 18, in the inside face strip 7, so that said edge 17 is received between said inside face strip 7 and the outer face strip 6, and the inserted edge may be effectively secured by stitching, as at 19, thus producing a smooth continuous inside surface of the wrist band when the latter is secured in position upon the wrist. The slit 18 is adjacent to one of the terminal ends of the body 1, preferably the terminal edge 4 having the straps 12, and the slit is parallel to the convergent plane of said edge 4, whereby an effective positional arrangement of the flap 16 with respect to the conical positional shape of the wrist band is secured.

The operation and advantages of my invention will be readily understood by those familiar with athletic sports and the uses for which bands of this character are intended. The improved construction is designed to provide the maximum of comfort, convenience and simplicity, and to enable the adjustment of the device with the desired degree of compression under conditions and circumstances of use and with conformity to the shape and size of the wrist, notwithstanding the brace and stiffened character of the body-portion.

Having thus described my invention, I claim and desire to secure by Letters Patent:

1. As an improved article of manufacture, a wrist band of the character described, consisting of a flexible body in strip form constituted by inner and outer face strips and curved to produce a uniform width throughout on radial lines extending from its bottom edge to its top edge, and having stiffening media arranged within said body on said

radial lines and provided with fastening means at the meeting edges of said body, substantially as and for the purpose set forth.

2. As an improved article of manufacture, a wrist band of the character described, consisting of a flexible body in strip form constituted by inner and outer face strips and curved to produce a uniform width throughout on radial lines extending from its bottom edge to its top edge, said uniform-width body having its terminal edges of a length corresponding to said uniform width and respectively on convergent lines extending from the top edge to the bottom edge, whereby the body has an increased area longitudinally at its top portion with relation to its bottom portion, and having stiffening media arranged within said body on said radial lines, and provided with fastening means at the meeting edges of said body, substantially as and for the purpose set forth.

3. As an improved article of manufacture, a wrist band of the character described, consisting of a flexible body in strip form constituted by inner and outer face strips and curved to produce a uniform width throughout on radial lines extending from its bottom edge to its top edge, said uniform-width body having its top edge extending longitudinally and continuously on a convex line and its bottom edge extending longitudinally and continuously on a concave line corresponding to the curvature of the top edge and having its terminal edges of a length corresponding to said uniform width and respectively on a convergent line extending from the top edge to the bottom edge, whereby the body has an increased area longitudinally at its top portion with relation to its bottom portion, and having stiffening media arranged within said body on said radial lines, and provided with fastening means at the meeting edges of said body, substantially as and for the purpose set forth.

4. As an improved article of manufacture, a wrist band of the class described, having a flexible body-portion consisting of an inner and outer face strip, said body having a larger area at its top portion than at the bottom, stiffening media consisting of individual elements secured between the inner and outer face strips and radiating from the lower edge of the body-portion, fastening means at the meeting edges of the body-portion, and a flap having its side edge secured between the inner and outer face strips and underlying said fastening means.

5. As an improved article of manufacture, a wrist band of the class described, having a flexible body-portion consisting of inner and outer face strips, said body-portion having its top edge curved longitudinally on a convex line and its bottom edge curved longi-

5 tudinally on a concave line and its terminal
edges extending on a convergent line from
the top edge to the bottom edge, stiffening
media consisting of individual elements se-
cured between the inner and outer face strips
and radiating from the lower edge of the
body-portion, fastening means at the meet-
ing edges of the body-portion, and a flap
having its side edge inserted in a slit in the
10 inner face strip parallel with one of the con-
vergent terminal edges of the body and se-
cured between the inner and outer face strips
and underlying said fastening means.

6. As an improved article of manufacture,
15 a wrist band of the character described, con-
sisting of a flexible body in strip form con-
stituted by inner and outer face strips curved
to produce a uniform width throughout on
radial lines extending from its bottom edge
20 to its top edge and carrying stiffening media,
said uniform-width body having its ter-
minal edges of a length corresponding to
said uniform width and respectively on a
convergent line extending from the top edge
25 to the bottom edge, whereby the body has an
increased area longitudinally at its top por-
tion with relation to its bottom portion, and
having integral extensions from one of said
body-strips at one of said convergent ter-
30 minal edges and carrying fastening devices
and integral extensions from said body-strip
at the other terminal convergent edge for
engaging said fastening devices, and having
an inner flap underlying said fastening
35 means, substantially as and for the purpose
set forth.

7. As an improved article of manufacture,
a wrist band of the class described, having a
flexible body-portion consisting of an inner
40 and outer face strip, the terminal edges of
the body being on a convergent line from the
top to the bottom, whereby the area of the
body is larger at its top portion than at the
bottom, stiffening media arranged within
45 the body-portion and radiating from the

lower edge of the body-portion, extensions
at one of the terminal edges carrying fas-
tening devices, extensions at the other ter-
minal edge for engaging said fastening de-
vices, and an inner flap having its side edge 50
inserted in a slit in the inner face strip and
secured between the inner and outer face
strips and underlying said terminal edges.

8. As an improved article of manufacture,
a wrist band of the class described, having a 55
flexible body-portion in strip form consist-
ing of corresponding inner and outer face
strips, said body-portion having its top edge
curved longitudinally on a convex line and
its bottom edge curved longitudinally on a 60
concave line and its terminal edges extend-
ing on convergent lines from the top edge
to the bottom edge and being of approxi-
mately uniform width between its top and
bottom edge throughout its length from one 65
terminal edge to the other terminal edge,
whereby said body-portion is of larger area
at its top portion than at its bottom portion,
stiffening media consisting of individual ele-
ments secured between the inner and outer 70
face strips and radiating from the lower edge
of the body-portion and of approximately
corresponding uniform length with relation
to the approximately uniform width of the
strip constituting the body-portion, and fas- 75
tening means at the convergent terminal
edge portions, whereby when the device is
in operative position upon the wrist the top
and bottom edges are parallel and the body
strip and stiffening media are in uniform ta-
80 pering positional arrangement and location
with respect to the taper of the wrist.

In testimony whereof I have signed my
name in the presence of the subscribing wit-
nesses.

HENRY JAMES COLLIS.

Witnesses:

JOHN H. ELDRIDGE,
KATE H. GALLIGAN.