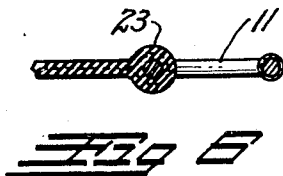
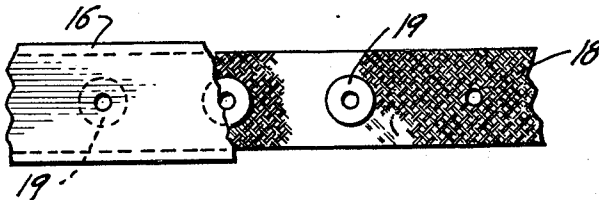
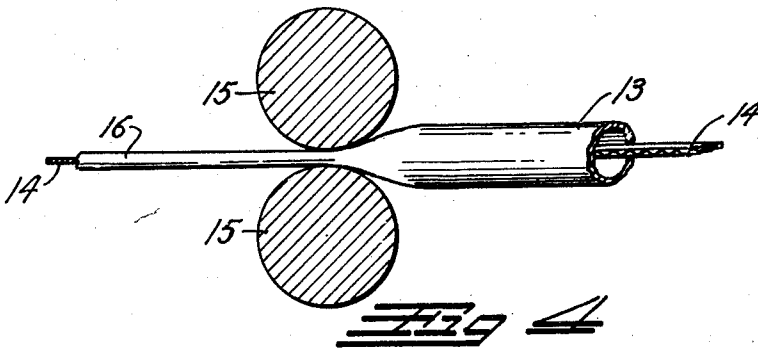
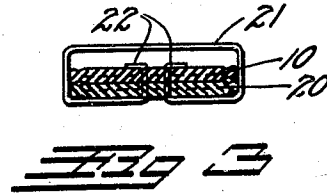
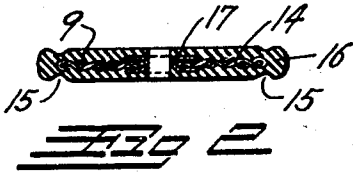
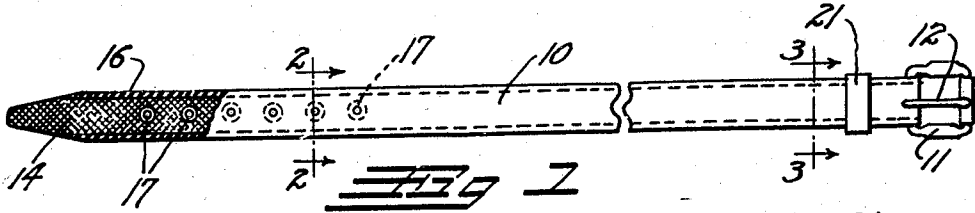


April 29, 1930.

B. H. SHWAYDER
STRAP FOR SUITCASES, ETC
Filed April 23, 1928

1,756,038



Inventor

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By

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UNITED STATES PATENT OFFICE

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STRAP FOR SUITCASES, ETC.

Application filed April 23, 1928. Serial No. 272,226.

This invention relates to an improvement in straps for suitcases, traveling bags, trunks, etc., and has for its principal object the provision of a strap which will be strong, flexible, attractive in appearance, and which can be easily, rapidly and efficiently manufactured.

Another object of the invention is to provide means in a rubber strap which will prevent the strap from stretching and will prevent the buckle tongue from tearing out or enlarging the tongue holes.

Still another object of the invention is to provide a rubber strap with a fabric or cord reinforcement arranged so that the fabric or cord will not show in the edges of the strap.

A further object is to provide means for securing the strap around the buckle and providing a strap loop with one operation.

A still further object is to arrange the buckle so that it may be vulcanized into the strap so as to become an integral part thereof.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a plan view of one form of my improved strap partly broken away to show the interior construction.

Fig. 2 is an enlarged cross section taken on the line 2—2, Fig. 1.

Fig. 3 is a similar cross section taken on the line 3—3, Fig. 1.

Fig. 4 is a diagram illustrating the process of manufacture of one form of my improved strap.

Fig. 5 is a detail view, partly in section, illustrating an alternate form of the strap.

Fig. 6 is a detailed view illustrating the strap with the buckle vulcanized therein.

In the drawing the strap is designated in

its entirety by the numeral 10 and provided with a strap buckle 11 having the usual tongue 12.

In the preferred form of my invention, the strap is formed as shown in Fig. 4, by extruding a raw rubber tube 13, from a suitable die or mold and passing a fabric or cord band 14, into the interior of the tube. The tube is then rolled between suitable rolls 15, to press it flat against the fabric band 14, and form a flat strap which is then vulcanized by any suitable vulcanizing process. The strap may be vulcanized between molds carrying any suitable design such as the grooves illustrated at 15. By this method of manufacture, the edges of the fabric band 14, are completely concealed by an ornamental rubber envelope 16, formed from tube 13.

To prevent the buckle tongue 12, from tearing the strap, eyelets 17, are placed through the fabric band 14, at the points where buckle holes are desired. These eyelets will be completely imbedded and vulcanized in the rubber covering 16, as illustrated in Fig. 2. During the vulcanizing process pins may be passed through the eyelets to mold holes in the strap or the holes can be punched after vulcanization by a suitable multiple die.

In the alternate form of the invention, illustrated in Fig. 5, a diagonally woven cord fabric 18, is employed, which ordinarily has sufficient strength in itself to prevent the buckle tongue from tearing the openings owing to its diagonal cord construction. Additional reinforcement can be provided, however, by placing a metallic or other strengthening washers 19, around the tongue openings and allowing the washers to be vulcanized into the rubber cover 16, with the fabric 19.

In one form of the invention the buckle 11, is secured to the strap by turning back one extremity 20, thereof, as is common in strap and belt construction. The turned back extremity 20, is secured in place by means of a metallic belt loop 21, which passes completely around the belt terminating in tongues 22, which are inserted through the turned back portion and the belt proper and bent or riveted in place as shown in Fig. 3. By this construction a single member pro-

vides the belt with a belt loop and secures the buckle in place in one operation.

In another form of my invention, illustrated in Fig. 6, I secure the buckle to the extremity of the fabric band and vulcanize it into the rubber of the strap at the time the band is vulcanized in place therein as shown at 23.

In another process of forming the strap the rolls 15 can be eliminated and the rubber tube exuded through a die with the band 14 simultaneously passing from an opening in the die so that it enters the tube. The tube with its enclosed band is then placed in a rubber mold which presses the tube flat against the band. The tube die should have an elongated cross section so that it will snugly inclose the band immediately upon leaving the die.

While specific forms of the improvement have been described and illustrated herein, it is desired to be understood that the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what I claim and desire secured by Letters Patent is:—

1. A strap comprising a fabric band; a rubber envelope completely surrounding both faces and edges of said fabric band; a buckle secured at one extremity of said strap there being a series of buckle openings provided adjacent the other extremity thereof; and strengthening members adjacent said band and surrounding said buckle openings, said members being vulcanized into the interior of said rubber envelope.

2. A strap comprising a fabric band; a rubber envelope completely surrounding both faces and edges of said fabric band; a buckle secured at one extremity of said strap there being a series of buckle openings provided adjacent the other extremity thereof; and annular metallic members adjacent said band and surrounding said buckle openings, said members being vulcanized into the interior of said rubber envelope.

3. A strap comprising a fabric band; a rubber envelope completely surrounding both faces and edges of said fabric band; a buckle secured at one extremity of said strap there being a series of buckle openings provided adjacent the other extremity thereof; and eyelets clamped to said band and surrounding said openings; said eyelets being vulcanized into the interior of said rubber envelope.

4. A strap comprising a fabric band; a rubber envelope completely surrounding both faces and edges of said fabric band; a buckle secured to one extremity of said strap by a turned back portion of that extremity and means for securing said turned-back portion in place, said means comprising a belt loop, the extremities of which pass around to the

rear face of said strap and return through both the turned back portion and the strap proper to clamp against the front face thereof.

5. Means for securing the turned back portion of a belt in place and at the same time providing a strap loop comprising: a metallic member arranged in spaced relation with the front face of said belt to form a strap loop; extremities on said member extending rearwardly at each edge of said belt and inwardly across the rear face thereof; and locking portions on said extremities adapted to extend forwardly through both said belt and said turned back portion and be clamped against the forward face of said belt.

In testimony whereof, I affix my signature.
BENJAMIN H. SHWAYDER.