W. ACHTMEYER.

WOVEN CARTRIDGE BELT.

APPLICATION FILED OCT. 12, 1917.

1,306,243.

Patented June 10, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

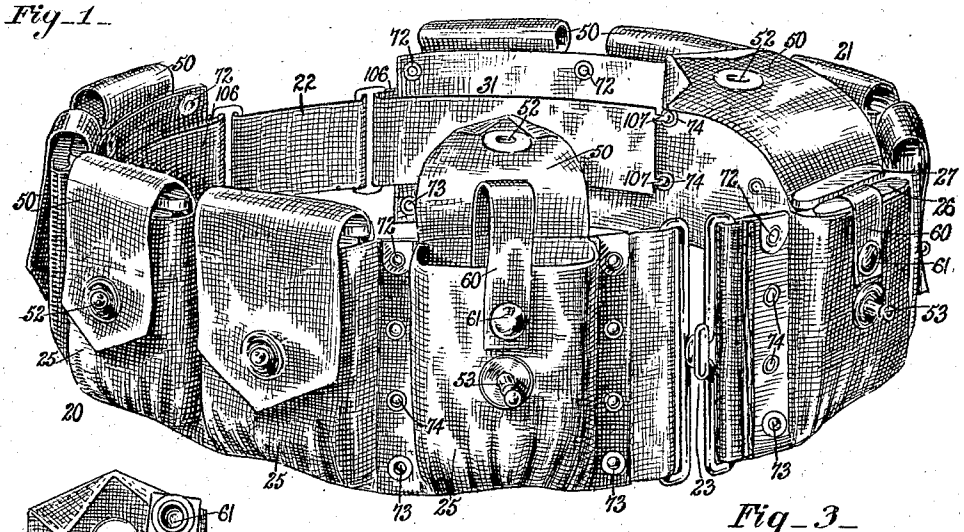


Fig. 3.

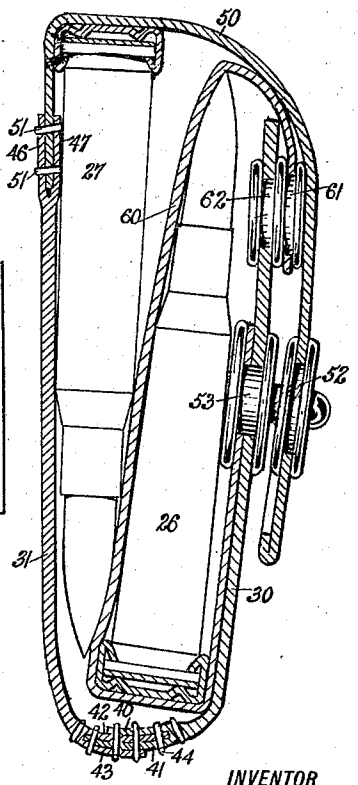


Fig. 2.

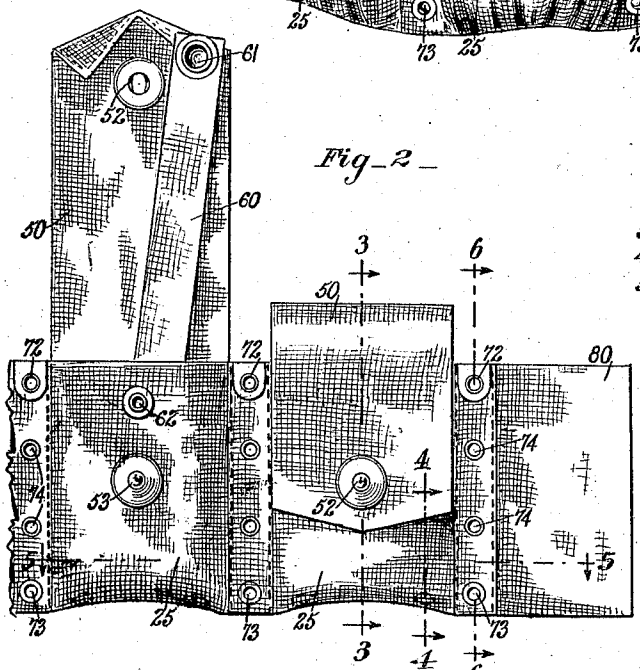
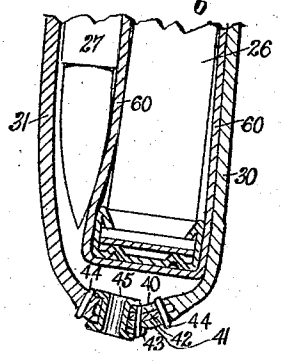


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

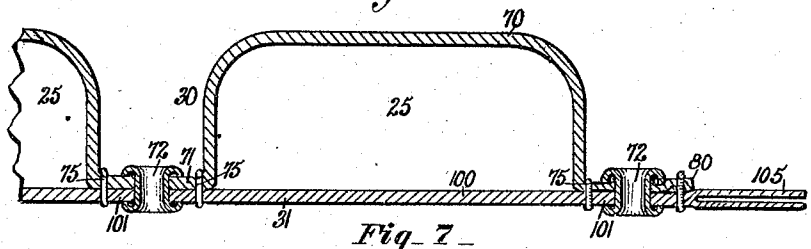



Fig. 6.

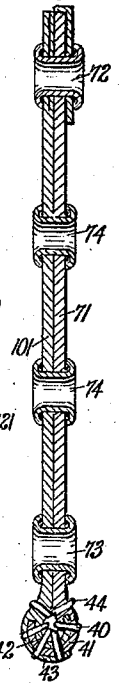



Fig. 7.

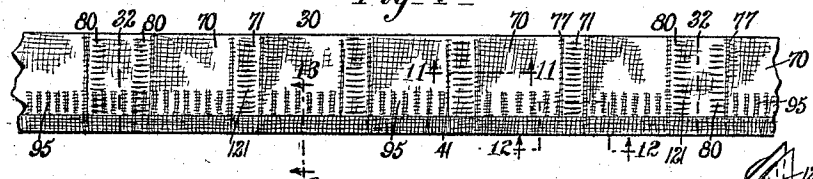



Fig. 8.

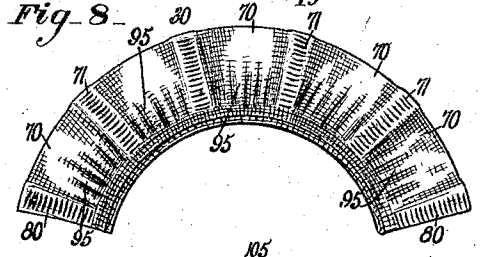



Fig. 10.

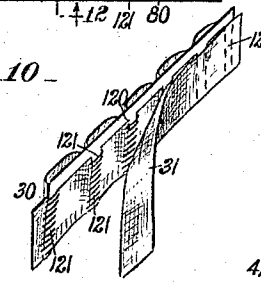



Fig. 9.

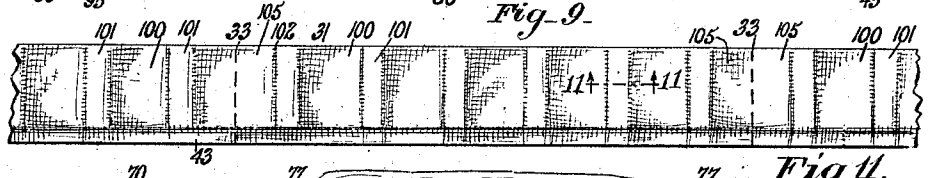



Fig. 11.




Fig. 12.




Fig. 14.

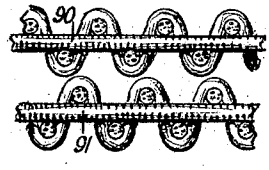



Fig. 13.

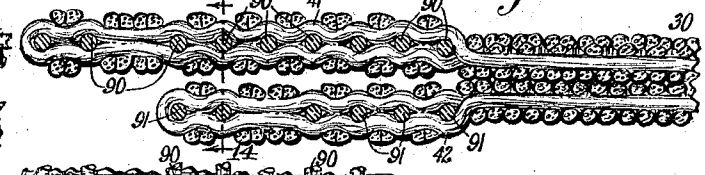
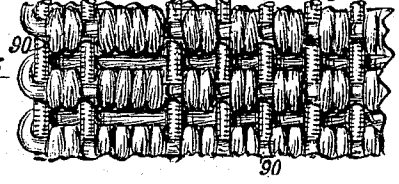



Fig. 15.




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# UNITED STATES PATENT OFFICE.

WILLIAM ACHTMEYER, OF MIDDLETOWN, CONNECTICUT.

## WOVEN CARTRIDGE-BELT.

1,306,243. Specification of Letters Patent. Patented June 10, 1919.

Application filed October 12, 1917. Serial No. 196,283.

*To all whom it may concern:*

Be it known that I, WILLIAM ACHTMEYER, a subject of the German Emperor, having declared my intention to become a citizen of the United States, and a resident of Middletown, in the county of Middlesex and State of Connecticut, have invented a new and Improved Woven Cartridge-Belt, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved woven cartridge belt which is exceedingly strong and durable, cheap to manufacture, and provided with pockets of uniform shape for properly holding the cartridges in place. Another object is to permit of weaving the cartridge belt on an ordinary chain head loom instead of special looms, such as are now used for making cartridge belts with integral fashioned pockets.

With these and other objects in view, the invention consists of certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the cartridge belt made in two sections, each with five pockets each for the reception of two clips of cartridges;

Fig. 2 is a front view of a portion of the cartridge belt with one of the closing flaps and the dividing band in open position;

Fig. 3 is an enlarged cross section of the cartridge belt on the line 3—3 of Fig. 2;

Fig. 4 is a similar view of the same on the line 4—4 of Fig. 2;

Fig. 5 is an enlarged sectional plan view of the same on the line 5—5 of Fig. 2;

Fig. 6 is an enlarged cross section of the same on the line 6—6 of Fig. 2;

Fig. 7 is a reduced rear face view of a portion of the flat front webbing adapted to be cut along the dotted lines into individual fronts of the cartridge belt;

Fig. 8 is a like view of the front of the cartridge belt after being cut from the webbing to allow its elastic warp threads to draw the front into segmental shape;

Fig. 9 is a reduced face view of a portion of the flat back webbing adapted to be cut transversely along the dotted lines into individual backs of the cartridge belt;

Fig. 10 is a perspective view of the back and front with a gage interposed between the same to guide the operator when sewing the front and back together on opposite sides of each pocket;

Fig. 11 is an enlarged longitudinal section of the front and the back weave of the cartridge belt, the section being on the line 11—11 of both Figs. 7 and 9;

Fig. 12 is a similar view of a portion of the front of the cartridge belt, the section being on the line 12—12 of Fig. 7;

Fig. 13 is an enlarged cross section of the front of the cartridge belt on the line 13—13 of Fig. 7;

Fig. 14 is a longitudinal section of the same on the line 14—14 of Fig. 13; and

Fig. 15 is a face view of the same when looking in the direction of the arrows indicated on the line 15—15 of Fig. 13.

The woven cartridge belt in its entirety, as shown in Fig. 1, is preferably made in two sections 20 and 21 connected with each other at the rear by an adjustable band 22 and at the front by a suitable buckle 23 to permit of opening and closing the belt. Each section 20 and 21 is preferably provided with five pockets 25, each for receiving two cartridge clips 26 and 27, as indicated in Figs. 1 and 3. The sections 20, 21 are alike in construction and hence it is sufficient to describe but one in detail. Each section consists essentially of a woven pocket front 30 and a back 31, both woven on ordinary chain head looms as endless webbings, cut transversely along the lines 32 (see Fig. 7) and 33 (see Fig. 9) to provide individual fronts and backs 30, 31. The front 30 is divided or split lengthwise at the lower edge thereby providing split members 40, 41 interlocked with corresponding split members 42 and 43 formed on the lower margin of the back 31, the interlocked split members 40, 41 and 42, 43 being fastened together by suitable stitches 44, as will be readily understood by reference to Figs. 3 and 4. The sewing employed for fastening the split members 40, 41 and 42, 43 together is reinforced by eyelets 45 (see Fig. 4) preferably two at the bottom of each pocket 25. The eyelets 45 also provide an escape for dirt, water and other extraneous matter thus

keeping the pockets clean. The upper margin of the back 31 is preferably split or divided lengthwise to form the members 46 and 47 between which is fastened the rear ends of closing flaps 50, one for each pocket 25, and having its rear end fastened between the members 46 and 47 by stitches 51 (see Fig. 3). The free end of each closing flap 50 is detachably connected with the front of the corresponding pocket 25 by a suitable fastening device such as socket and stud members 52, 53, of which the stud member 52 is on the flap 50 and the socket member 53 is fastened to the front of the pocket 25. In order to separate the cartridge clips in each pocket 25 use is made of a dividing strip 60 fastened at its inner end by the socket member 53 to the front of the pocket 25, as plainly shown in Fig. 3. The free end of the dividing strip 60 is detachably connected by a fastening device such as socket and stud members 61 and 62 to the upper portion of the pocket 25 to hold the clip 26 locked in place when the closing flap 50 is open.

In order to form the pockets 25, the webbing for the front 30 is woven (preferably in a double-ply weave) with alternating pocket portions 70 and attaching portions 71, of which the attaching portions 71 are fastened by top and bottom eyelets 72 and 73 and intermediate eyelets 74 to the back 31, as plainly indicated in Figs. 5 and 6. Rows of stitches 75 also connect each attaching portion 71 to the back 31 at opposite sides of the eyelets 72, 73 and 74. The demarcation line 77 between the alternating pocket portion 70 and the attaching portions 71 is produced by distinguishing picks in the weave, as will be readily understood by reference to Fig. 11. The end portions 80 of each front 30 are preferably woven single ply and longer than a portion 71 to allow of doubling up the end portions which are stitched to the back 31 by the stitches 75 (see Fig. 5). The lower split members 40 and 41 of the front 30 have some of their warp threads 90 and 91 made of rubber or other elastic material held stretched during the process of weaving. When the weave is finished and taken off the loom and cut along the lines 32 shown in Fig. 7 and previously mentioned then the elastic warp threads 90 and 91 relax and in doing so draw the front 30 into segmental shape, as indicated in Fig. 8, thus puckering the lower half portion of the front 30. In order to facilitate the puckering, the lower part 95 of each pocket portion 70 is more loosely woven than the upper part of the said pocket portion 70 (see for comparison Figs. 11 and 12) thus insuring a ready puckering of the lower part 95 on the relaxation of the elastic warp threads 90 and 91.

The back 31 is woven as an endless webbing but without the elastic warp threads 90 and 91. This webbing for the back 31 is, however, provided with alternating wide and narrow portions 100 and 101, of which the narrow portions 101 register with the attaching portions 71 of the front 30, and the demarcation lines 102 between the wide and narrow portions 100 and 101 are made by distinguishing picks in the weave, the same as previously mentioned in reference to the demarcation lines 77. As previously stated, the lower and upper margins of the back 31 are woven with split or divided members 42, 43 and 46, 47.

The back 31 is preferably woven double-ply except the end portions 105 which are formed of two separated single-ply portions for receiving between them the corresponding end of the attaching strap 106 of the band 22, and which attaching strap 106 is provided at its other end with hooks 107 (see Fig. 1) engaging corresponding eyelets 74 nearer to or farther from the ends to render the band 22 adjustable.

When fastening the front 30 and the back 31 together use is made of a gage 120 provided with right angular arms 121 adapted to be inserted in the rear of sundry floating warp threads 121 extending across the corresponding attaching portions 71 but slightly narrower to allow the operator to fasten the portions 71 and 101 together by the rows of stitches 75, as previously explained. It will be noticed that by this arrangement the desired fullness is given to the pockets 25 and the pockets are made uniform and accurately spaced apart. After the sewing operation is completed the gage 120 is removed and then the eyelets 72, 73 and 74 are put in position to connect the parts together.

From the foregoing it will be seen that by the arrangement described the front and back 30 and 31 are firmly fastened together and the pockets 25 are accurately fashioned and uniformly spaced apart thereby producing a cartridge belt which is exceedingly strong and durable and exceedingly neat in appearance.

Although the device is shown and described as a cartridge belt the device can be used as a haversack or container for other articles such as field glasses, cameras and the like.

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

1. A woven cartridge belt, comprising a woven back having its lower marginal portion divided lengthwise, and a woven pocket front woven separately relative to the said woven back and having its lower marginal portion divided lengthwise and interlocked with the said divided lower marginal portion of the back, the said lower marginal portion of the front being provided with elastic

warp threads held stretched during the weaving, and released after weaving to pucker the lower portion of the front.

2. A woven cartridge belt, comprising a woven back having its lower marginal portion divided lengthwise, and a woven pocket front woven separately relative to the said woven back and having its lower marginal portion divided lengthwise and interlocked with the said divided lower marginal portion of the back, the said lower marginal portion of the front being provided with elastic warp threads held stretched during the weaving, and released after weaving to pucker the lower portion of the front, the lower part of the woven front adjacent the divided marginal portion being more loosely woven than the upper part to aid in puckering the lower part of the woven front.

3. A woven cartridge belt, comprising a woven back having its lower marginal portion divided lengthwise of the back, a woven pocket front having its lower marginal portion divided lengthwise and interlocked with the divided lower portion of the said back, the said front having alternate wide pocket portions and narrow attaching portions of which the latter are attached to the back, the lower marginal portions of the front being provided with elastic warp threads held under tension during the weaving of the front and puckering the pocket portions of the front into pockets on relaxing the elastic warp threads after the front is woven.

4. A woven cartridge belt, comprising a woven back having its lower marginal portion divided lengthwise of the back, a woven pocket front having its lower marginal portion divided lengthwise and interlocked with the divided lower portion of the said back, the said divided lower marginal portion of the front being provided with elastic warp threads held under tension during the weaving of the front and puckering the front on relaxing of the said elastic warp threads after the front is woven.

5. A woven cartridge belt, comprising a woven back, a woven front, the back and front providing cartridge pockets, the lower ends of the said back and front having lengthwise extending interlocking members, stitches fastening the said members together, and eyelets fastening the said members together and forming an escape for dirt from the said pockets.

WILLIAM ACHTMEYER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."