

B. M. BUGGE.
ARM SLING.
APPLICATION FILED SEPT. 11, 1918.

1,304,153.

Patented May 20, 1919.

FIG. 1.



FIG. 2.

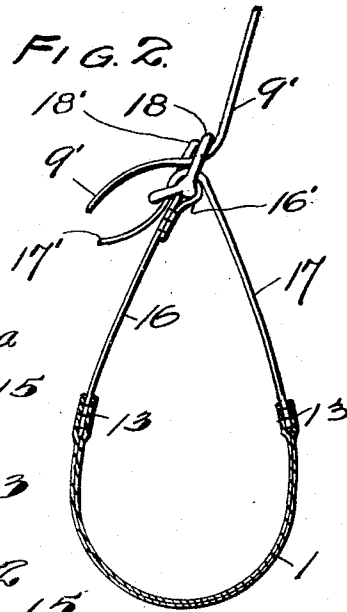


FIG. 3.

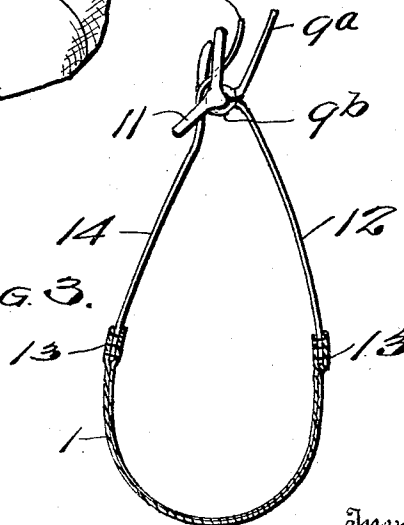
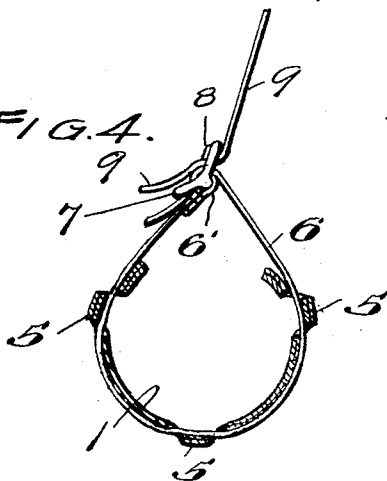


FIG. 4.



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ARM-SLING.

1,304,153.

Specification of Letters Patent.

Patented May 20, 1919.

Application filed September 11, 1918. Serial No. 253,576.

To all whom it may concern:

Be it known that I, BERGITHE M. BUGGE, a subject of the King of Norway, residing at Spokane, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Arm-Slings, of which the following is a specification.

The present invention relates to improvements in surgical bandages or slings for supporting the forearm in case of fracture of the bone or for other purposes, and the primary object of the invention is the provision of a flexible sling or support for the arm that is capable of adjustment with relation to the horizontal, across the front of the body of the wearer, for varying the pressure of the inside and outside folds of the sling, and for supporting the forearm at the wrist, and to this end the invention consists in certain novel combinations and arrangements of the supporting straps of the sling, as will be hereinafter more fully described and claimed.

In the accompanying drawings one complete example of the physical embodiment of the invention is illustrated, the combination and arrangement of parts herein illustrated being made according to the best mode so far devised for the practical application of the principles of the invention, and the device as illustrated in the drawings has proven highly satisfactory in actual practice.

Figure 1 is a view illustrating the surgical bandage or sling in use, as supporting the forearm.

Fig. 2 is an enlarged, sectional view through the sling showing the forward forked connection with the sling of the shoulder or body strap.

Fig. 3 is a similar view showing the rear forked attachment of the strap to the sling.

Fig. 4 is a vertical transverse sectional view of the sling showing the wrist strap in use.

In the preferred embodiment of the invention as illustrated in the drawings the sling is of strong, flexible textile material or cloth, and comprises two portions, the front or forearm part 1 and the angularly arranged part 2 which extends above the elbow. The sling is open at the upper surface of the forearm and at the inner side above the elbow, but the elbow portion 3 is loosely

secured about the arm above the elbow by means of the strap or band 3, preferably also of cloth or textile material, and provided with the usual buckle 4 for loosely fastening the edges of the sling together.

At the forward or wrist end of the sling, the portion 1 is provided with three loops 5 provided by cutting slits in the material so that the wristband 6 may be passed therethrough to support the arm at the wrist. A loop 6' is fashioned at the end of the band 6 to secure the buckle 7, and the prong or tongue 8 of the buckle passes through the end of the wrist band or strap 6 to form a continuous band for the support of the wrist. The wrist band is of course adjustable, as is also the arm band 3, but the latter band is preferably stitched to the arm portion 2 of the sling.

The sling is supported entirely by the shoulder strap 9 which passes around the neck over the shoulders of the wearer, and is capable of adjustment by using the buckle 10, while the other end of the shoulder strap is bifurcated and has the two end straps 9' and 9^a. In Fig. 3 it will clearly be seen that the end 9^a is formed with a loop 9^b for securing the buckle 11, and from this loop an extension 12 is provided, being secured between the two thicknesses or layers or plies of the sling, as at 13, and the support at this point is continued through the means of the extension 14 whose end 15 is adjustably attached to the buckle 11. In Fig. 1 it will be noted that the extensions 12 and 14 are arranged in pairs, diverging from the buckle so that they are spaced apart at their point of attachment 13 to the sling. A similar arrangement of extensions, forked as described, is provided forward of these extensions or tabs, as indicated at 16 and 17, the former at the outside of the sling and the latter at the inside or edge, and the four ends are attached as at 13, by stitches. Thus there are four parts of diverging tabs, two outer pairs 14 and 16 and two inner pairs 12 and 17, that are spaced along the edges of the sling between the elbow and wrist, to give a complete and uniform support for the sling. The tab 17 has its end attached to the buckle 18, and the prong 18' of the buckle, it will be noted, passes through both ends 17' and 9' as seen in Fig. 2 of the drawings, to suspend the sling from the shoulder strap.

The drawings depict the sling or bandage as in actual use, and it will be apparent that the sling may be adjusted with ease in several respects, as for instance in Fig. 3, the end 15 of the tab 14 may be drawn tighter, and this action will create a greater pressure at this point on the outer part of the arm, it being understood that the sling 1 and the two tabs 12 and 14 are anchored by the loop 9^b on the buckle 11. This same action may be accomplished by the tabs 16 17 wherein the end 17' of the tab 17 may be fastened to the buckle 18. And in addition the two sets of forked suspending tabs may be adjusted through the attachment of the ends 9' and 15, and, if required, the forearm may be held at an angle by the shortening of the strap 9 where it is attached to the buckle 7 and of the end 9' where it is attached to the

buckle 18, and in any position, it will be seen the sling is supplied with points of support that provide for a uniform and comfortable suspending bandage.

Claim:

The combination with an open sling and its shoulder strap, and said sling having a series of spaced loops around its wrist end, a wrist strap passed through these loops and connected with the shoulder strap at one of its ends, the other end of the shoulder strap formed with a pair of diverging members, one of which is provided with a loop for a buckle and forked extensions attached to the sling, and a complementary forked extension attached at the opposite edge of the open sling and connected with the buckle.

In testimony whereof I affix my signature.

BERGITHE M. BUGGE.

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