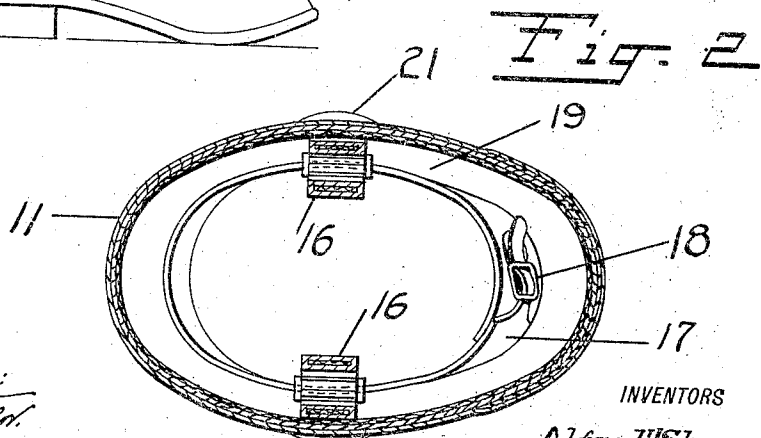
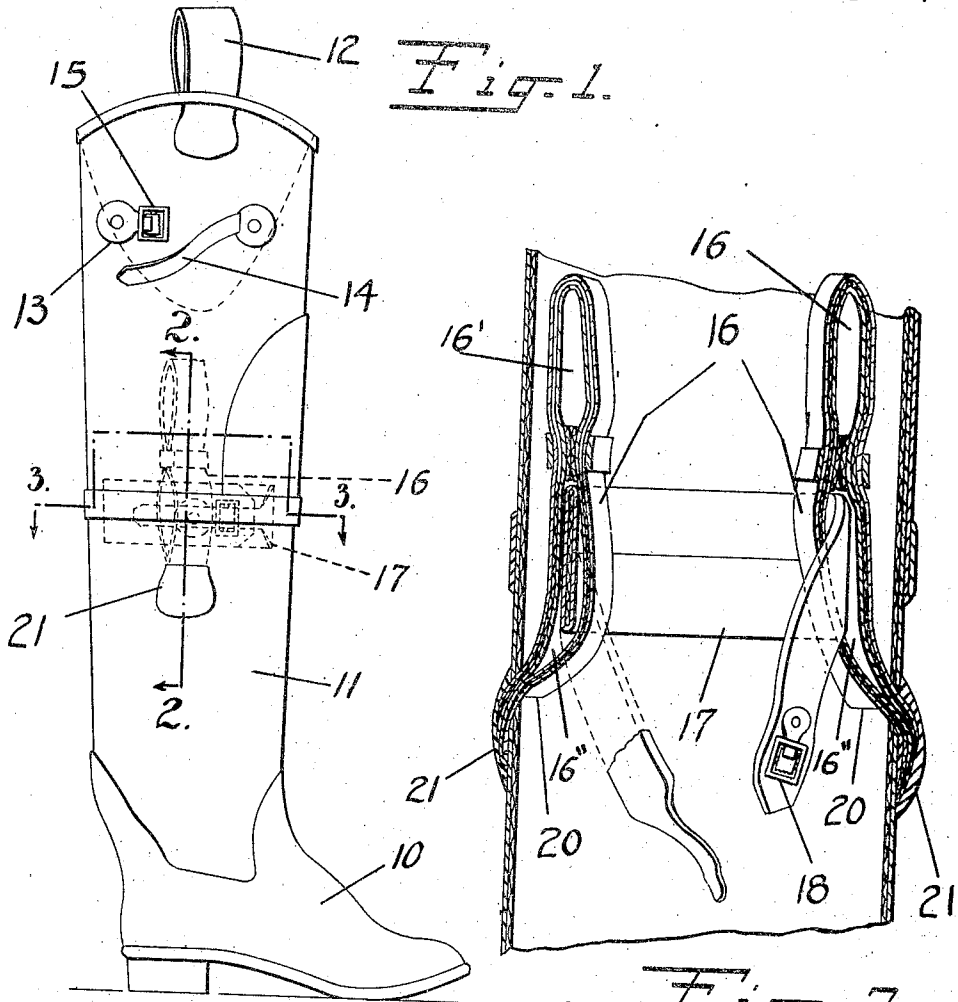


1,180,452.

Patented Apr. 25, 1916.



WITNESS:  
*S. G. Taylor*

*Fig. 3.*

21

Harry McNulty BY

*Ernest Hopkinson*  
 THEIR ATTORNEY

INVENTORS

Alfred H. Steen and

# UNITED STATES PATENT OFFICE.

ALFRED H. STEEN AND HARRY McNULTY, OF BERLIN, ONTARIO, CANADA, ASSIGNORS  
TO CANADIAN CONSOLIDATED RUBBER COMPANY, LIMITED, OF MONTREAL,  
QUEBEC, CANADA.

## RUBBER BOOT.

1,180,452.

Specification of Letters Patent.

Patented Apr. 25, 1916.

Application filed July 27, 1915. Serial No. 42,118.

*To all whom it may concern:*

Be it known that we, ALFRED H. STEEN and HARRY McNULTY, both subjects of the King of Great Britain, and residents of Berlin, Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Rubber Boots, of which the following is a full, clear, and exact description.

This invention relates to rubber boots adapted especially for use under muddy conditions of service, and has for an object to provide means for firmly attaching the boot to the leg above the calf, so that it will not be pulled off by the mud and at the same time providing for the passage of air past the attaching means, so that the boot will be cool and comfortable to the wearer.

With the above objects in view, the invention consists in certain novel details of construction and combination of parts herein-after fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

The invention can be readily understood from the following description taken in connection with the accompanying drawing, in which—

Figure 1 is a side elevation of a rubber boot embodying our improvements; Fig. 2 is an enlarged sectional view on the line 2—2 in Fig. 1; Fig. 3 is an enlarged sectional view taken on the line 3—3. Fig. 1.

Referring now to the drawing in which like characters of reference designate similar parts, a rubber boot is shown comprising a foot portion 10 and a leg portion 11, the boot in this particular embodiment being illustrated as a hip boot, that is, a boot having the leg portion of sufficient length to extend to the hip of the wearer. The boot is provided at the top with suitable means for anchoring it against dropping down, such as for instance, a loop 12 adapted to be threaded over a waist strap or the like worn by the wearer, and short straps 13 and 14 connected by a buckle 15 for tightening the top of the boot about the leg of the wearer.

In carrying out the invention we provide a pair of loops 16 which extend within the inclosure of the leg portion of the boot and are secured to the wall of the leg portion at

about the height of the calf of the wearer's leg, these loops being arranged preferably at opposite points in the sides of the boot. The loops are of sufficient diameter to receive a comparatively wide strap 17, the same being of sufficient length to encircle the leg of the wearer above the calf and having its ends connected by a buckle 18. By virtue of the strap being secured at two points only to the wall of the boot, there will exist spaces as shown at 19 between the strap and wall of the boot, these spaces forming air passages which facilitate the passage of air past the strap so that the boot will be cool to the wearer.

The strap 17 as well as the loops 16 may be formed of any desired material, but preferably are formed of rubber coated fabric folded upon itself as shown by the sectional views, so that the resultant product is a strip of fabric incased by vulcanized rubber. Thus an extremely strong construction of loop and strap results, while at the same time a smooth exterior exists on the article to be presented to both the clothing of the wearer and the lining of the boot to minimize frictional wear. The strap furthermore is preferably formed of such width as to engage over a considerable area of the wearer's leg, so that it will not cut into or chafe the leg, and will therefore be comfortable to the wearer and will not mutilate the clothing of the wearer.

Preferably the strap loops 16 are inserted through respective incisions 20 in the wall of the boot and the ends are firmly vulcanized together and to the vulcanized rubber cover and reinforcing patch 21 of the boot, so that a firm union of the straps with the wall of the boot is produced to prevent separation of the parts under excessive strain, while at the same time waterproof joints exist at the junctures of the straps with the wall of the boot leg.

In order that the strap may be adjusted to a long or a short leg, we preferably form each loop 16 with a plurality of openings in the present embodiment, two being shown at 16' and 16'' to interchangeably receive the strap. However, we do not limit ourselves to the construction shown, as the loops may be made adjustable, or otherwise constructed, to hold the strap at various desired heights above the foot portion of the boot.

While we have shown a hip boot in the

drawings, we do not limit the scope of our improvement to hip boots, as the improvement may be applied to that class of rubber boots known as top boots also. Furthermore, while we have shown a specific means for anchoring the boot to the wearer's leg above the calf, we do not limit ourselves to this construction, as various modifications may be resorted to, it being simply necessary to the practice of the invention that means be provided within the inclosure of the boot leg and secured to the wall thereof for engaging the wearer's leg above the calf and anchoring the boot against being accidentally pulled off.

From the above description it will be seen that we have provided a rubber boot which may be worn with security under muddy conditions of service and will be at all times comfortable both with respect to ventilation and with respect to its bearing or area of snug engagement upon the leg of the wearer.

What is claimed is:

25 1. A rubber boot embodying a foot portion and a leg portion, means within the inclosure of the leg portion for anchoring the boot to the leg of the wearer above the calf, and means securing the first named means to

the wall of the leg portion and providing 30 channels for passage of air from the foot portion past said anchoring means.

2. A rubber boot embodying a foot portion and a leg portion, loops secured at opposite points to the wall of the leg portion 35 and lying within the inclosure of said wall, and a strap passed through said loops for encircling the leg of the wearer above the calf and anchoring the boot to the leg.

3. A rubber boot embodying a foot portion and a leg portion, means within the inclosure of the leg portion for anchoring the boot to the leg of the wearer above the calf, and means secured to the wall of the boot and adapted to hold the first named means 45 at various heights above the foot portion of the boot.

4. A rubber boot embodying a foot portion and a leg portion, a strap within the inclosure of the leg portion for anchoring the 50 boot to the leg of the wearer above the calf, and a loop secured to the wall of the boot and having a plurality of openings to interchangeably receive said strap.

Signed at Berlin, Ontario, Canada, July 55 20, 1914.

A. H. STEEN.  
HARRY McNULTY.