No. 619,665.

Patented Feb. 14, 1899.

T. E. BURT.

KNEE PAD.

(No Model.)

(Application filed May 7, 1898.)

Fig 1.

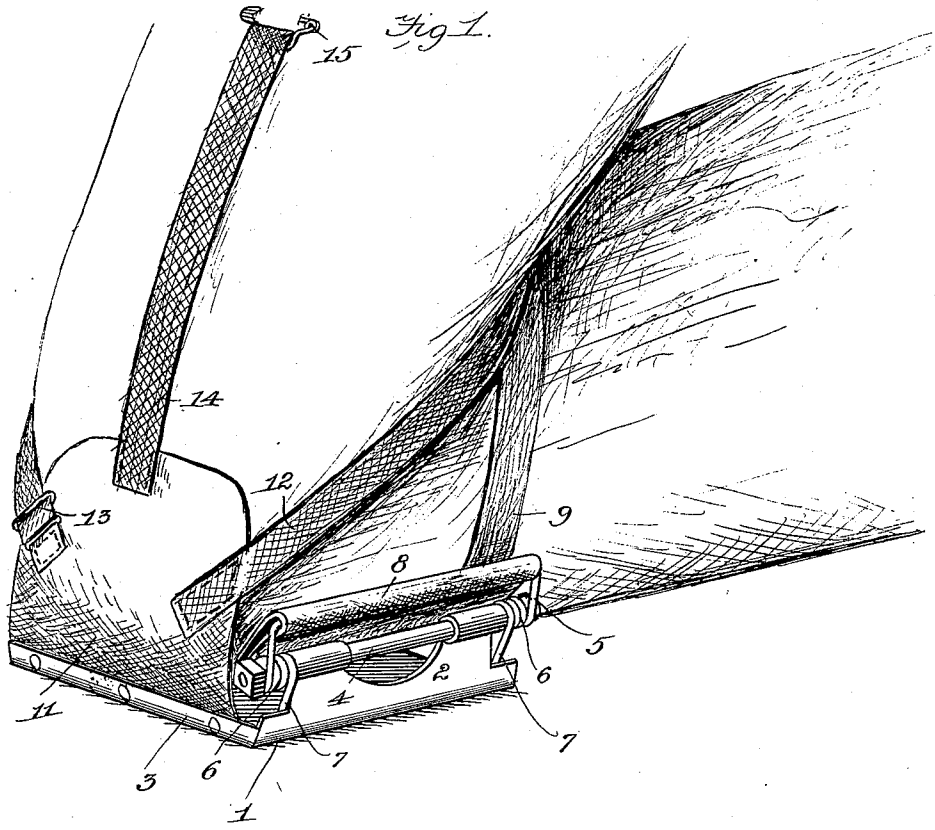


Fig 2.

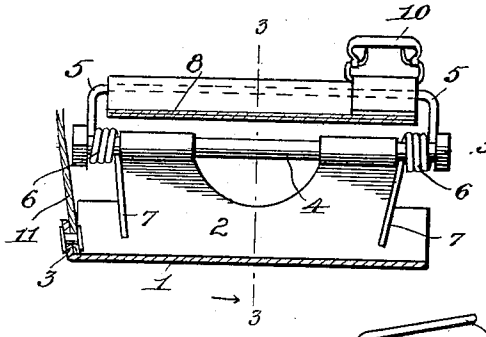


Fig 3

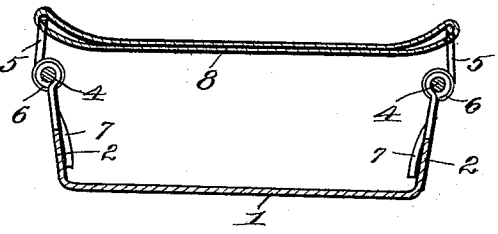
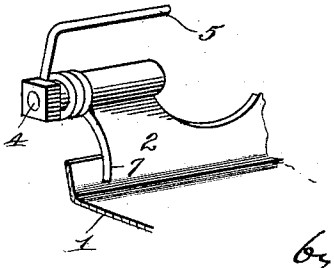


Fig 4



Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

TAYLOR E. BURT, OF LOS GATOS, CALIFORNIA.

KNEE-PAD.

SPECIFICATION forming part of Letters Patent No. 619,665, dated February 14, 1899.

Application filed May 7, 1898. Serial No. 680,049. (No model.)

To all whom it may concern:

Be it known that I, TAYLOR E. BURT, a citizen of the United States, residing at Los Gatos, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Knee-Pads; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to knee-pads.

The purpose of the invention is to provide a shoe or device to be worn on the knee and which is adapted to conform to the anatomy of the person and which will yield under differences of pressure.

The invention consists in the combination of a base or sole piece consisting of a trough-shaped device either molded or pressed into the form shown in the drawings, a pair of springs operatively connected with the sides or walls of the base, a strap or sling arranged athwart the sole-piece and held in position by means of the springs, and means connected with the sole-piece and with the sling part for connecting the device with the leg and knee of a person.

In the drawings, Figure 1 is a perspective showing my improved device as applied to use. Fig. 2 is a section through the device. Fig. 3 is also a section at right angles to that shown in Fig. 2. Fig. 4 is a detail perspective of one of the springs.

1 represents the bottom part of the sole or base piece, the same being provided with side walls or flanges 2 2 and with a lip or flange 3. In the free edges of the flanges 2 are formed sockets or bearings for rods or shafts 4 4. Loops or yokes 5 5, each formed with two spirals 6 6, having ends 7 7 extending from the spirals, are connected with the side flanges 2 2 of the base-plate by means of the rods 4 4. The rods extend through the spirals in the yoke and the sockets or bearings in the edges of the base-plate. These yokes or loops extend vertically from the upper edges of the side walls of the base, and the ends 7 extend downward and bear against the flanges of the base-plate, as shown. These yokes or loops, with their spirals arranged as illustrated and described, constitute springs adapted to yield and give under variations of pressure or weight upon the sling or pad proper 8, which is hung upon and sustained by the loops or yokes. When the base-plate is made of pressed steel or other sheet or plate metal, the side walls will also give or yield in some measure under pressure applied to the sling or pad proper. As a means of securing this pad or device to the knee of the user I provide a strap 9, which passes around the calf of the leg, the strap being attached at one end to the sling and secured at the other end by means of a buckle 10. To the front lip or flange 3 I attach, by preference, a web 11, which when applied to use closes the front end of the device and thereby prevents the admission of dirt or sand or anything of the kind from collecting on it or the base-plate or sole between the flanges. The lip furnishes a convenient means for the attachment of this flap or web by means of rivets or otherwise. The web furnishes a base or means of attachment of a second strap 12, which is drawn around the leg of the user just at the bend of the knee and secured by means of a fastening device 13. Also attached to the flap or web 11 is another strap 14, provided with a safety-pin 15 for connection with the garment to hold the device firmly in correct position against the knee. The straps referred to are by preference made of elastic webbing or like elastic substance for the comfort and convenience of the user. The base-plate or sole is provided with perforations at the bottom, and a wooden or other subbase may be riveted or otherwise secured to the base described whenever found desirable.

The device without any subbase or attachment will hold the knee away from the floor or ground a sufficient distance to ordinarily keep it out of water or dampness; but for some uses and in some localities it may be desirable to have the subbase attachment.

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

1. A knee pad or shoe consisting of the combination of a base part provided with flanges having sockets at the free edges of the flanges,

yokes, each formed with two spirals to form eyes and having projecting ends to impinge against flanges on the base-plate a sling or support and means for coupling the pad to the knee of the wearer, substantially as described.

2. In a knee pad or shoe, the combination of a pad proper, a calf-strap, a knee-strap, and a vertical strap provided with an attachment for connecting a pad or shoe to the knee of an operator, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

TAYLOR E. BURT.

Witnesses:
B. H. NOBLE,
F. G. TENNEY.