

July 28, 1925.

1,547,166

H. K. DAVIDSON

KNEE PAD

Filed Sept. 3, 1924

Fig. 1.



Fig. 2.

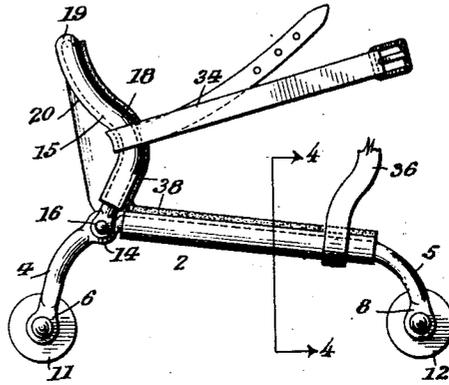


Fig. 3.

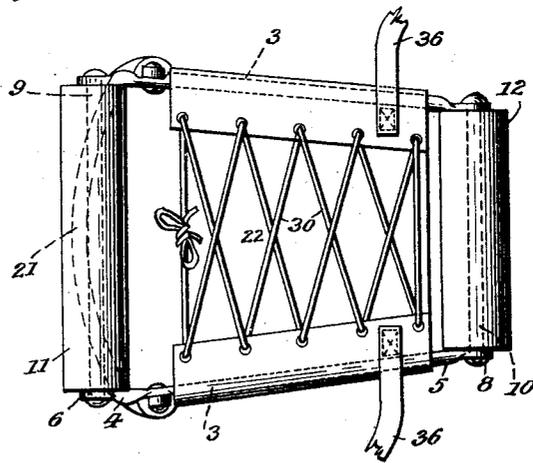


Fig. 4.

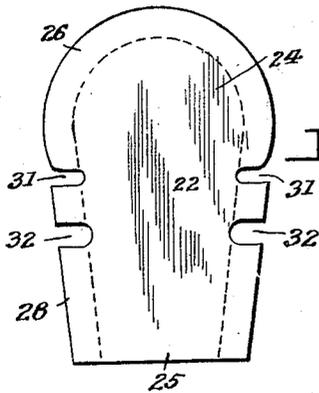
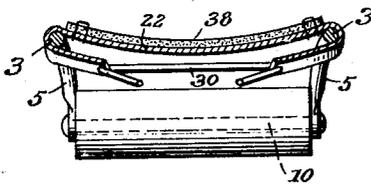


Fig. 5.

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UNITED STATES PATENT OFFICE.

HOMER K. DAVIDSON, OF PRINCETON, TEXAS.

KNEE PAD.

Application filed September 3, 1924. Serial No. 735,631.

To all whom it may concern:

Be it known that HOMER K. DAVIDSON, a citizen of the United States, residing at Princeton, in the county of Collin and State of Texas, has invented certain new and useful Improvements in Knee Pads, of which the following is a specification.

This invention relates to kneeling pads for use of workmen or laborers whose occupation necessitates kneeling and is especially designed for the purpose of providing a device which may readily be attached to the knee and which when attached will permit the wearer to move freely about from place to place.

It is a further feature of this invention to provide a device which when attached, will permit bending or flexing of the knee, and further the provision of a device wherein a flexible knee support is capable of being placed under adjustable tension.

With these and other objects in view, my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

Referring to the drawings wherein for the purpose of illustration is shown the preferred embodiment of my invention,—

Figure 1 is a view of the device as applied to the knee of the wearer,

Figure 2 is a side elevation of the knee pad, the forward end being bent as would appear on the knee,

Figure 3 is a bottom plan view of the knee pad showing the means for adjusting the tension of the pad,

Figure 4 is a transverse section taken on line 4—4 of Fig. 2, and

Figure 5 is a plan view of the blank of leather or like material, the dotted lines indicating where it is bent around the frame.

In describing the invention, I shall refer to the drawings, in which similar reference characters designate corresponding parts throughout the several views, and in which 2 designates generally a main metallic frame, including side members 3, the front and rear ends of which are turned or bent downwardly to provide legs 4 and 5, the feet 6 and 8 of which support respectively, transverse rods 9 and 10 upon which are journaled casters or rollers 11 and 12.

As shown in plan view in Figure 3, the side frame members converge rearwardly, so

that the rear roller or caster is shorter than the forward one, and as shown particularly in Figure 2, the rear legs 5 are shorter than the forward legs, so that the frame inclines to a slight degree rearwardly and downwardly. It may further be remarked that the rollers or casters 11 and 12 serve the additional function of properly spacing the side frame members.

Pivotaly supported upon the forward elevated end of the main frame 2, at approximately the junction of the upper portion of the forward legs 4 with the side frame members 3 as at 14, is a substantially U-shaped metallic frame 20, the lower ends of the arms 15 of which are pivotaly mounted at the aforesaid junction point 14 by means of pivot pins or rivets 16, and as shown in Figure 2, the arms 15, intermediate their ends are curved rearwardly as at 18 for purposes to be later described. As shown particularly by dotted lines in Figure 3, the upper or transverse portion 19 of the frame 20 is bowed outwardly as at 21 for the purpose as illustrated in Figure 1, of conforming to the shape of the leg of the user, above the knee-joint, while the curved portions 18 lie upon opposite sides of the leg above the knee-joint, and with the bowed portion 21 serve in properly supporting and positioning the device when in use.

Stretched across the frame members 2 and 20, is a pad 22 formed of leather or other suitable material, said pad preferably taking the form of the blank shown in Figure 5 and including a forward portion 24 and a rear portion 25, the former being turned at the folds 26 over the frame 20 and the folds 28 of the rear portion being folded over the side members 3 of the frame 2, the folds 28 being adjustably secured at their free edges by a lacing 30. The continuity of the lateral portions of the folds are interrupted by notched portions 31 and 32 which respectively permit the pad to be folded around the frame members. Stitched, or otherwise secured to the upper face of the leather pad 22, is a sheet of felt or other suitable soft material 38, the pad and felt sheet together providing a yielding support for the knee of the wearer, the device permitting at the same time, flexing or bending of the knee due to the pivotal connection of the frame 20 with the main frame 2.

To assist in securing the device upon the knee, as shown clearly in Figure 1, the for-

ward pivoted U-shaped frame is provided with straps 34 which may be buckled around the leg above the knee, while straps 36 secured to the leather pad 22 upon opposite sides thereof adjacent the rear may be buckled around the leg just below the knee.

The operation of the device will be clear from the foregoing description without further discussion.

10 From the foregoing description of the construction of my improved device, it will be seen that I have provided a simple, inexpensive and efficient means for carrying out the objects of the invention, and while I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form, proportion and in the minor details of construction may be resorted to, without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described my invention what I claim as new is:

1. A device of the character described, comprising a main frame including spaced side members, anti-friction rollers journaled upon opposite ends of said main frame, a second frame pivotally secured to said main frame at the forward end thereof, and a flexible kneeling pad stretched across and secured to the side members of each of said frames.

2. A device as described comprising a

main frame having spaced side members formed with legs at the forward and rear ends thereof, anti-friction rollers journaled at the lower portions of said legs, a second frame pivotally secured to said main frame and including a transverse member and spaced side members, and a flexible kneeling pad stretched across and secured to the side members of said frames.

3. A device as described comprising a main frame having rearwardly converging side members, terminating at their forward and rear ends in downwardly turned legs, a transverse rod connecting the lower portions of the forward and rear legs respectively, a second inverted U-shaped frame pivotally mounted upon the forward end of said main frame and a flexible pad stretched across and secured to said main and second frames.

4. A device as described comprising a main frame including side members terminating each in a forward and a rear downwardly extending integral leg, the rear legs being relatively shorter than the forward legs, an inverted U-shaped frame pivotally supported upon said main frame at the forward ends of the side members thereof, a flexible kneeling pad secured to said frames, means for adjusting the tension of said pad and straps for securing the device upon the knee of a wearer.

In testimony whereof I affix my signature.
HOMER K. DAVIDSON.