Dec. 14, 1948. D. F. TURNER 2,456,472

KNEE PAD

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Fig. 1

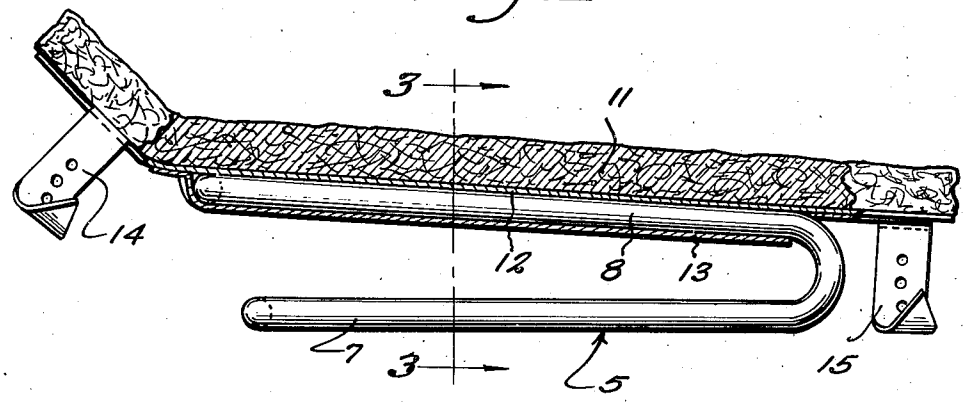
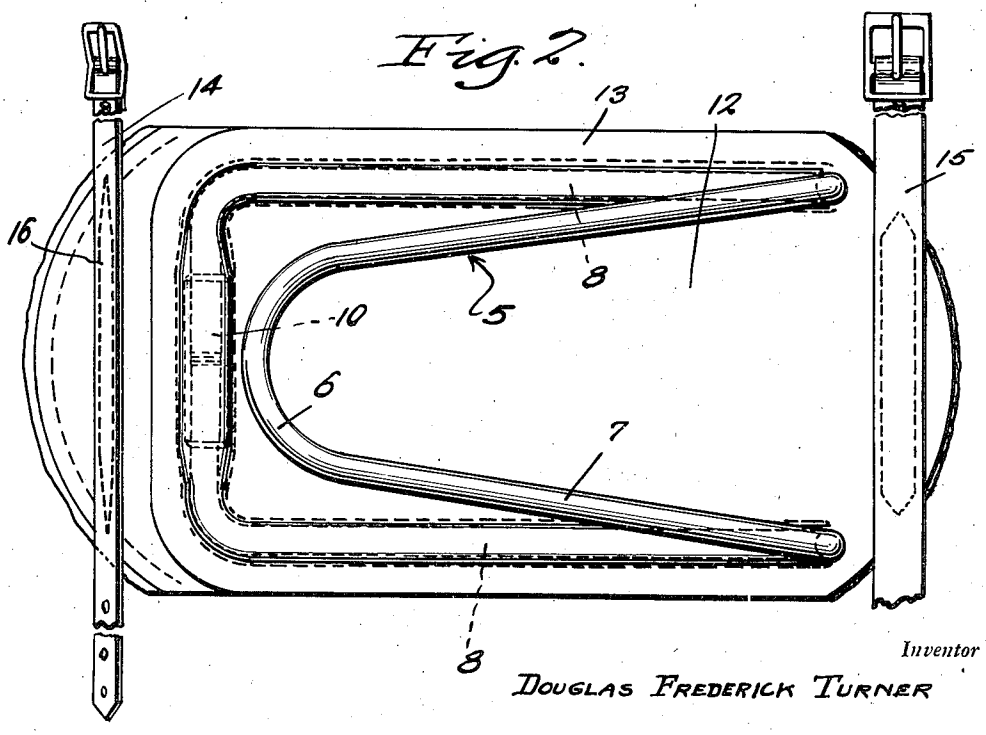


Fig. 2.



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Fig. 3.

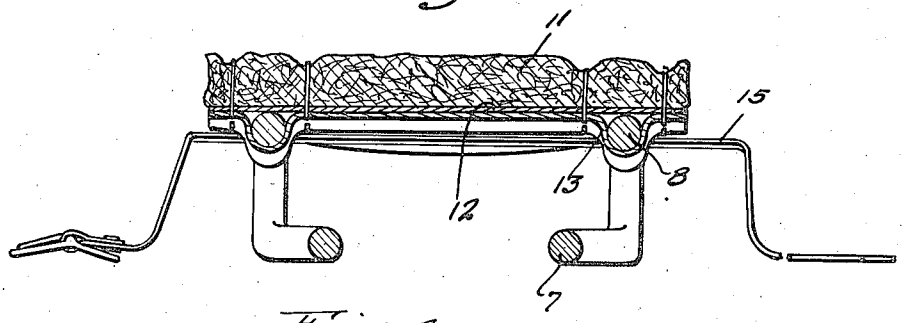
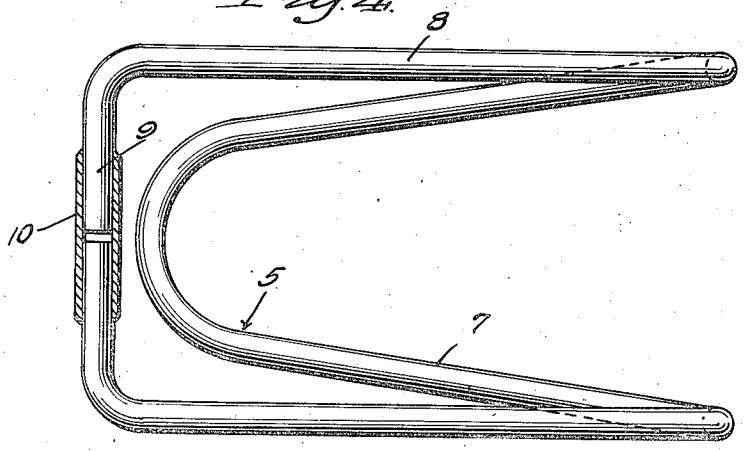


Fig. 4.



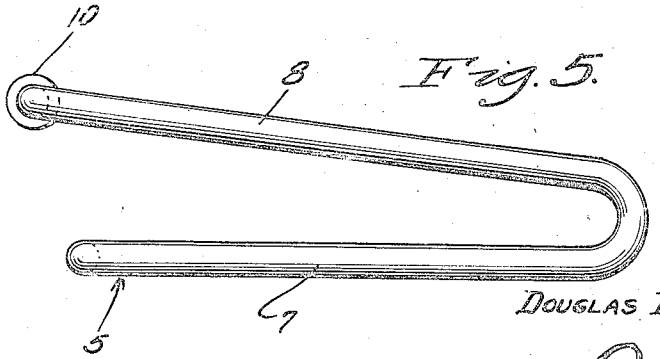


Fig. 5.

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2,456,472

UNITED STATES PATENT OFFICE

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KNEEPAD

Douglas Frederick Turner, Detroit, Mich.

Application July 24, 1946, Serial No. 685,965

1 Claim. (Cl. 2—24)

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The present invention relates to new and useful improvements in knee pads embodying cushion means for the knees of a person while working in a kneeling position to eliminate the discomfort of kneeling on hard surfaces.

An important object of the present invention is to provide a resilient base for the pad to support the pad in an elevated position above the ground, floor or other surface together with means for attaching the pay to the knees of a person to facilitate movement of the pad over the ground by the workman.

A still further object of the invention is to provide a device of this character of simple and practical construction, which is strong and durable, efficient and reliable in use, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a longitudinal sectional view.

Figure 2 is a bottom plan view.

Figure 3 is a transverse sectional view taken on a line 3—3 of Figure 1.

Figure 4 is a top plan view of the resilient base for the pad and

Figure 5 is a side elevational view thereof.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a resilient base generally which is constructed of a metal rod of resilient material, the rod being bent intermediate its ends to provide a substantially U-shaped bottom for the base, the legs 7 of said bottom portion being arranged in diverging relation toward the rear end of the pad, each leg being bent upwardly and forwardly to provide a pair of spaced parallel arms 8 which are supported in an elevated position above the bottom portion 6 and are inclined slightly upwardly toward the front end. The front ends of the arms 8 are bent transversely inwardly as shown at 9 and are rigidly connected to each other by means of a sleeve 10. The inwardly bent ends 9 of the arms 8 are positioned slightly forwardly of the front end of the bottom portion 6 of the base as will be apparent from an inspection of Figures 4 and 5 of the drawings.

A pad 11 of felt or other suitable material is provided with a leather or other flexible base 12 of tough materials and is supported on the arms 8 by leather or other flexible strips 13 sewed to the base 12 of the pad and enclosing the arms as well as the transverse ends 9 thereof and the sleeve 10.

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The front and rear ends of the pad 11 extend forwardly and rearwardly of the base 5 and to the under-side of which are secured front and rear straps 14 and 15, respectively preferably by sewing the straps to the base 12 of the pad as indicated at 16.

The front strap 14 is adapted for attaching to the leg of a person above the knee while the rear strap 15 is adapted for attaching to the leg below the knee so that the pad will support the knee of a person when in a kneeling position.

The front end of the pad 11 projects upwardly in front of the knee to protect the same from injury by objects which might strike the knee while the pad is being worn.

The arms 8 of the base 5 are constructed of material possessing sufficient strength to support the weight of a person and at the same time embodying sufficient reliency to yield to the weight of a person and thus relieve the knee from shock and discomfort such as usually caused by contact of the knee with unyielding surfaces.

In view of the foreging description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in the art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

I claim:

A knee pad comprising a base constructed of rod material and including a U-shaped lower portion and a pair of spaced parallel arms integrally formed with the ends of said lower portion and supported above the latter, inwardly projecting ends at the front of said arms, a sleeve rigidly connecting said ends, a resilient pad and strips of flexible material secured to said pad and extending along and enclosing said arms, ends and sleeve to secure the same to said pad.

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