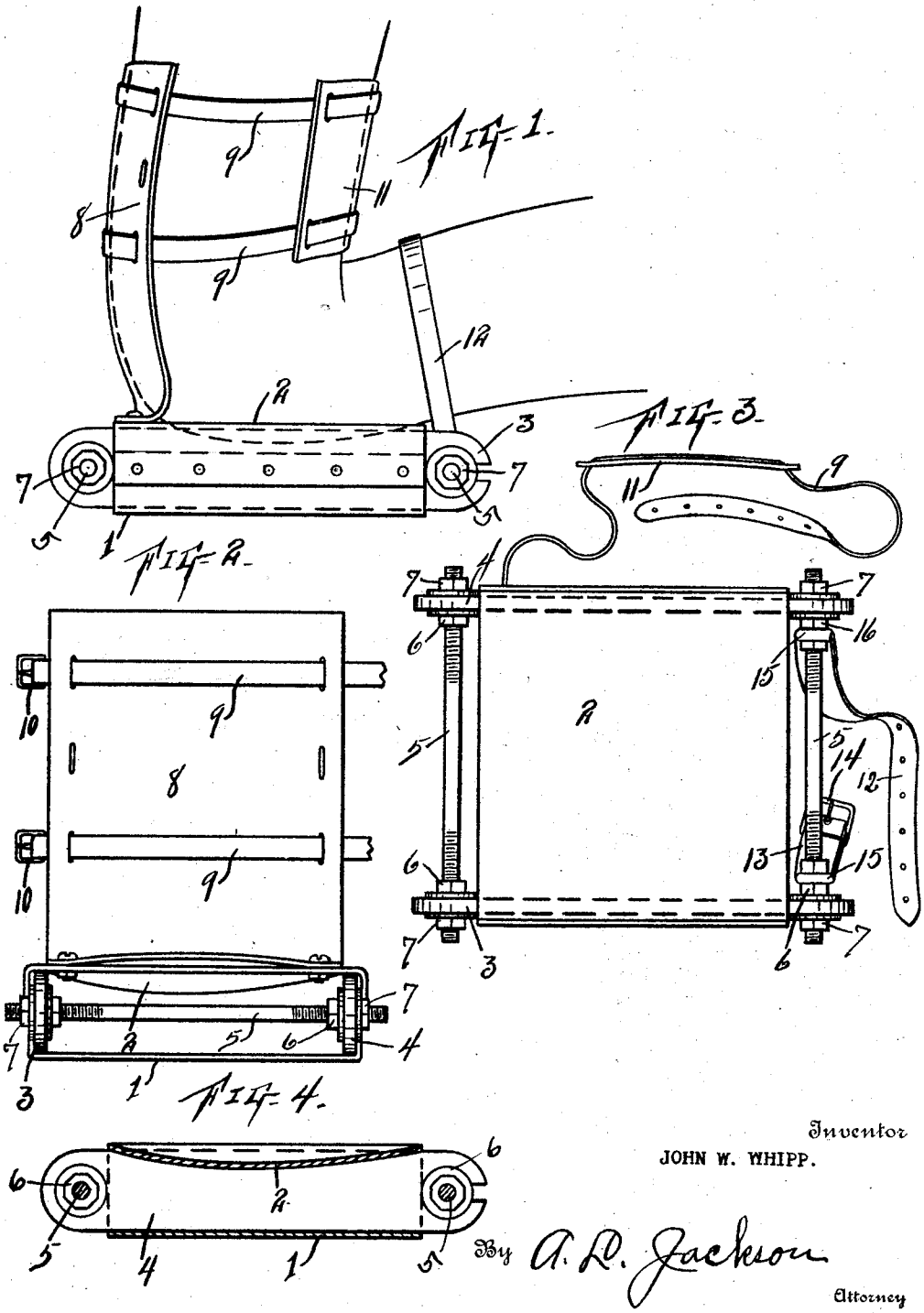
April 14, 1925. 1,533,907

J. W. WHIPP

KNEE PROTECTOR

Filed July 26, 1924



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Patented Apr. 14, 1925. 1,533,907

UNITED STATES PATENT OFFICE.

JOHN W. WHIPP, OF FORT WORTH, TEXAS, ASSIGNOR OF ONE-HALF TO M. H. MOORE, OF FORT WORTH, TEXAS.

KNEE PROTECTOR.

Application filed July 26, 1924. Serial No. 723,481.

To all whom it may concern:

Be it known that I, JOHN W. WHIPP, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Knee Protectors, of which the following is a specification.

My invention relates to knee protectors and more particularly to knee pads provided with tension adjusting means and means for permitting passage of air through the pads; and the object is to provide knee pads which will protect the knees of people working standing on the knees and which will make the workers comfortable while at work. Another object is to provide adjusting means for regulating the tension of the pads and which raises the knees high enough to be comfortable and to permit the circulation of air under the pads. Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Fig. 1 is a side elevation of the knee pad, as applied to a knee. Fig. 2 is a front elevation of the same detached from the knee. Fig. 3 is a plan view. Fig. 4 is a longitudinal section of the pad.

Similar characters of reference are used to indicate the same parts throughout the several views.

The knee pad is provided with a single piece of material (preferably leather). This pad or piece of material forms a base 1 for resting on the ground or floor and a rest 2 for the knee is formed of another piece of material. The base member 1 and the rest 2 are attached by riveting or otherwise attaching the same to frame members 3 and 4. The frame members are spaced apart and they hold the members 1 and 2 spaced apart so that air may pass freely between the members 1 and 2 and also hold the member 2 sufficiently high so that the knees will be protected from heat from the hot ground in case of cotton picking or other occupation. The frame members 3 and 4 may be of wood and spaced apart by rods 5 which are threaded at both ends and nuts 6 are placed on the rods inside of the members 3 and 4 and nuts 7 are placed on the rods 5 outside of the frame members 3 and 4 so that the members 3 and 4 may be used to create tension in the members 1 and 2 and to hold the members 3 and 4 fixedly at whatever position they may be placed. The members 3 and 4 are slotted at their rear ends for convenience in mounting the base members 1 and 2. These members 1 and 2 may be a single piece sewed or otherwise attached at ends. By removing the rod 5 by reason of the slots in the ends or the frame members, the protecting members 1 and 2 may be placed on the frame members without removing the rod 5 at the other end. Another advantage is that the rod 5 need not be threaded all along in one direction.

A gage and shield 8 is attached to the front of the protector member 2 which performs two functions. It serves to locate the protector at the right position on the knee and it serves as a shield and brace. The shield is held in place by flexible straps 9 which may be provided with buckles 10. The shield 8 will also prevent the knee from coming against the rod 5 in front of the member 2. In order to prevent the straps 9 from irritating the underside of the leg, a shield 11 may be provided to rest under the leg and the straps 9 run through slits in the shield to retain this shield 11 in place. The shield 11 forms a broad bearing to come against the legs instead of the straps 9. The rear end of the protector is held to the leg by straps 12 and 13 and a buckle 14. The straps 12 and 13 are caught on the rear rod 5 and held in place by nuts 15.

It is apparent that the knee supporting member 2 can be so adjusted as to make the knee comfortable and that the knee is held out of contact with any solid element. Various changes in the sizes, construction, and arrangement of the several parts may be made without departing from my invention.

What I claim is:—

1. A knee protector comprising a base member and a knee supporting member, frame members for spacing said members apart, and means for holding said frame members spaced apart and positioning said frames at different points of adjustment for controlling the tension of said base and knee supporting members.

2. A knee protector comprising a base member and a knee supporting member, a frame for spacing said base and supporting

members apart, said base and supporting members being formed of a single piece of flexible material and surrounding said frame, a brace and shield attached to said knee support, straps and buckles attached to said brace and shield for binding the same to the leg of the wearer, and a bearing member to prevent said straps from injuring the legs of the wearer.

3. A knee protector comprising a base member and a knee supporting member, frame members for spacing said base and supporting member apart, rods engaging said frame members, and means on said rods for positioning said frame members at different points of adjustment.

4. A knee protector comprising a base member and a knee supporting member, frame members for spacing said base member and supporting member apart having openings for adjusting rods and slots at one end for installing purposes, rods engaging said frame members and the rod at the slotted ends of said frame members being adapted to move in and out of engagement with said frame members through said slots, means on said rods for positioning said frame members at different adjustments, and means for attaching said base and supporting members to the leg of the wearer.

In testimony whereof, I set my hand, this 22nd day of July, 1924.

JOHN W. WHIPP.