July 27, 1926. 1,594,151

L. B. CHANCE

HAND SHIELD AND KNIFE SUPPORT

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Fig. 1.

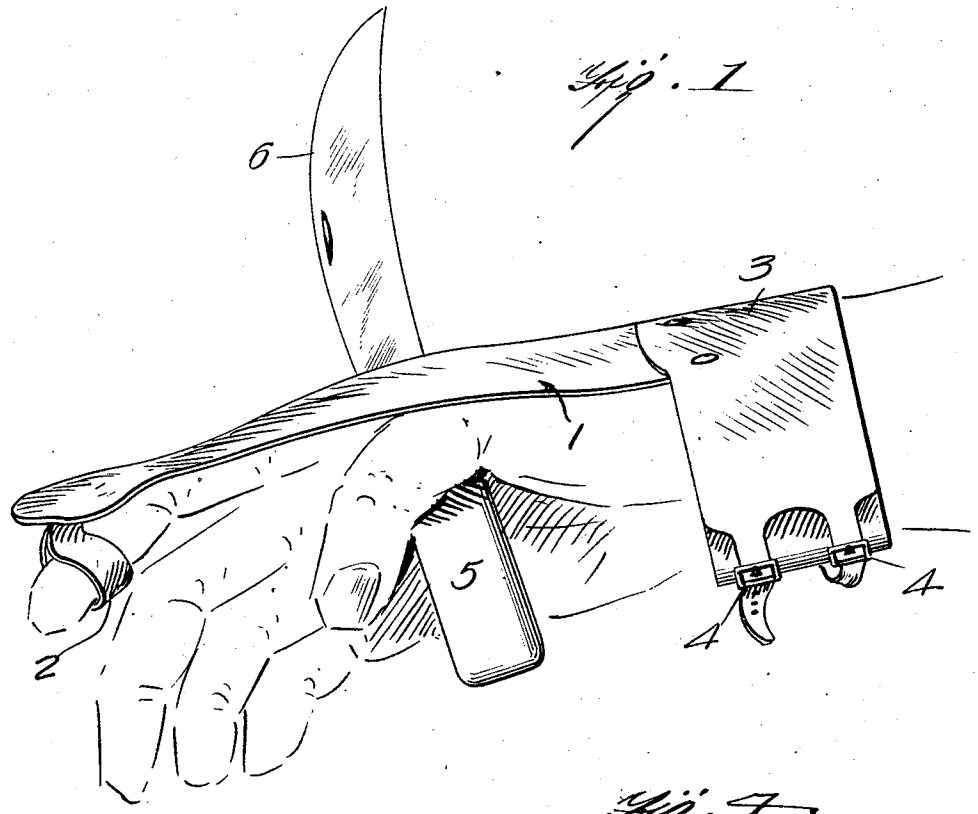



Fig. 4.

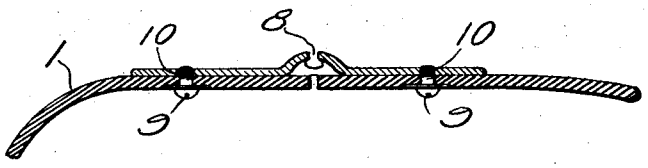
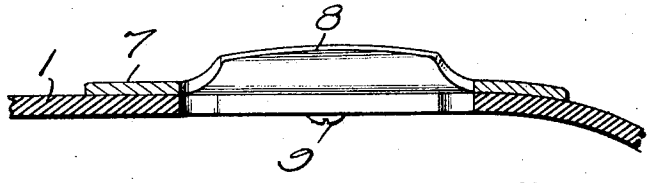



Fig. 5.




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Fig. 2.

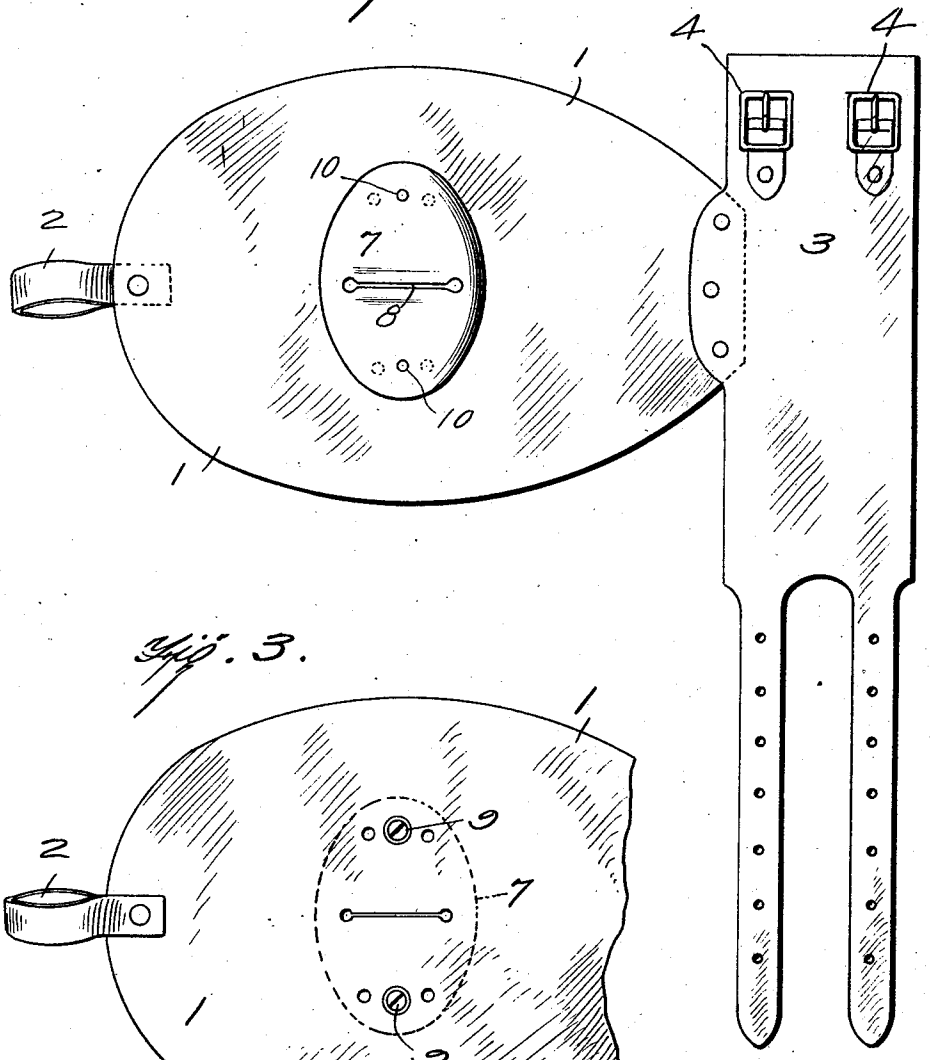



Fig. 3.




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Patented July 27, 1926. 1,594,151

# UNITED STATES PATENT OFFICE.

LLOYD B. CHANCE, OF LIBERAL, KANSAS.

## HAND SHIELD AND KNIFE SUPPORT.

Application filed September 9, 1925. Serial No. 55,344.

The purpose of the invention is to provide a device adapted to cover the knife-carrying hand in the operation of cutting grains, such as milo maize, kaffir, cane and other headed grains, and at the same time aid as a means for supporting the knife; and to provide adjusting means for the knife support so that the knife may be held effectively in the most convenient position for the operation.

With this purpose in view, the invention consists in a construction and combination of parts of which a preferred embodiment is illustrated in the accompanying drawings, wherein:

Figure 1 is a side elevational view showing the invention applied in operative position on the hand.

Figure 2 is a top plan view of the invention.

Figure 3 is a bottom plan view.

Figure 4 is a transverse sectional view on a center line through the knife supporting plate.

Figure 5 is a longitudinal sectional view on a center line through the knife supporting plate.

The shield 1, which may be made of any acceptable flexible material, preferably rawhide, is adapted to lie over the thumb, forefinger and wrist of the user, as indicated in Figure 1, being provided with a finger loop 2 for engagement by either the forefinger or second finger and being further provided with a wrist strap 3 for encompassing the wrist of the user, the wrist strap being provided with appropriate buckles 4 for firmly securing it to the wrist.

The knife 5 which is to be gripped by the fingers and thumb has its blade 6 projecting through the shield 1, the latter being slit in the region of the thumb to provide an opening for the passage of the blade. On top of the shield 1 is mounted the knife supporting plate 7 having a slit 8 formed therein corresponding to the slit in the shield, with the edges of the slit deflected outwardly. The knife supporting plate is retained in position on the shield by means of screws 9 threadingly engaged with the plate and insertable through the holes 10 formed in the shield, so that the supporting plate may be mounted in various angular positions to accord with the normal angular position of the knife blade as held by the user. The knife supporting plate being held by the shield, the hand is relieved of the strain tending to turn the knife blade one way or the other in the cutting operation since the blade passes through the slit 8 formed in the supporting plate and the latter being carried by the shield, the plate thus is mounted to offer the necessary resistance to prevent the blade turning. Also the plate, through the shield, tends to take from the fingers and to transfer to the wrist the pull imposed on the knife by the cutting operation.

The invention having been described, what is claimed as new and useful is:

1. A device for the purpose indicated comprising a knife supporting plate provided with a slit or slot for the passage of the knife blade, means for mounting the same on the hand in the region of the thumb and forefinger to prevent turning movement of the plate with respect to the hand, and means for angularly varying the position of the plate on the mounting means.

2. A device for the purpose indicated comprising a hand shield having means for connecting it with the wrist and one of the fingers of the hand and to cover the edge of the hand at the forefinger and the thumb, and a knife supporting plate mounted on the shield in the region of the thumb and provided with a slot or slit for the passage of a knife blade.

3. A device for the purpose indicated comprising a hand shield having means for connecting it with the wrist and one of the fingers of the hand and to cover the edge of the hand at the forefinger and the thumb, and a knife supporting plate mounted on the shield in the region of the thumb and provided with a slot or slit for the passage of a knife blade, the plate being adjustable to various positions angularly on the shield.

4. A device for the purpose indicated comprising a shield having a wrist strip and a loop for engagement by one of the fingers of the hand to dispose the shield in cover-

ing position at the edge of the hand at the forefinger and the thumb, a knife supporting plate mounted on the shield in the region of the thumb and provided with a slot for the passage of the blade of a knife gripped by the hand, and bolts attaching the plate to the shield, the latter being provided with a plurality of holes selectively engageable by the bolts to vary the position of the plate angularly with respect to the shield.

In testimony whereof he affixes his signature.

LLOYD B. CHANCE.