P. GANZHORN.

KNIFE HOLDER.

APPLICATION FILED MAY 20, 1918.

1,330,461. Patented Feb. 10, 1920.

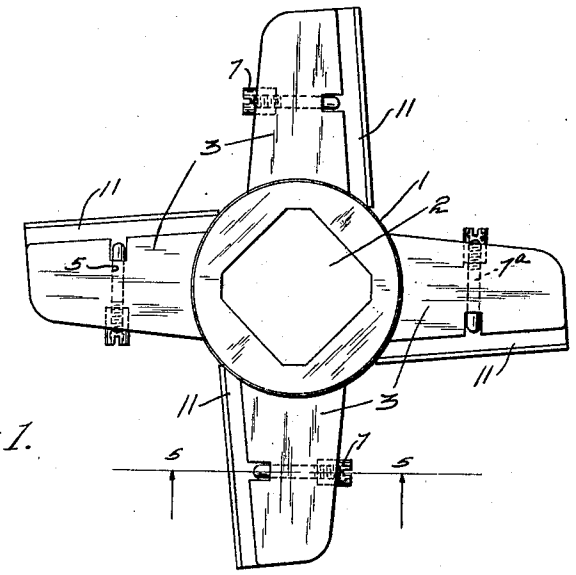


Fig. 1.

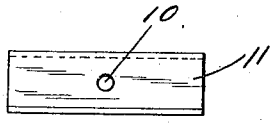


Fig. 2.

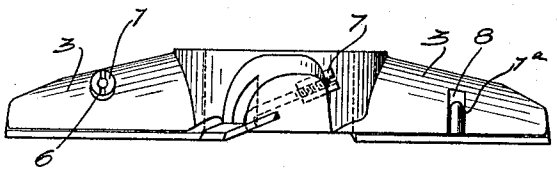


Fig. 3.

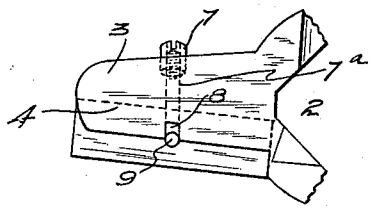


Fig. 4.

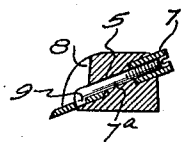


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

PHILIP GANZHORN, OF CHICAGO, ILLINOIS.

KNIFE-HOLDER.

1,330,461. Specification of Letters Patent. Patented Feb. 10, 1920.

Application filed May 20, 1918. Serial No. 235,598.

To all whom it may concern:

Be it known that I, PHILIP GANZHORN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Knife-Holders, of which the following is a specification.

This invention relates to improvements in knife holders for meat choppers. One object of the invention is to provide a knife holder wherein the knife blade is positively locked in operative position. A further object is to provide a knife holder wherein the knife blade is adjustably held in operative position and effectually locked against play or against accidental displacement. A further object is to provide a holder which permits only the cutting edge of the knife to touch the plate, thus reducing the friction and reducing the operating power necessary. A further object is to provide a knife holder that is very simple in construction, strong, durable and practically everlasting and that is cheap to manufacture.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described, pointed out in the appended claims and illustrated in the accompanying drawing which forms a part of this specification and in which—

Figure 1 is a plan view of my improved knife holder provided with blades.

Fig. 2 is a plan view of the type of blade employed.

Fig. 3 is a view of Fig. 1 in elevation.

Fig. 4 is an inverted fragmentary plan view of Fig. 3.

Fig. 5 is a cross section taken on line 5—5 of Fig. 1.

Like reference characters denote corresponding parts throughout the several views.

The reference numeral 1 denotes the hub of the holder body substantially circular in shape and formed with the approximately square opening 2 to permit it to be fitted to the end of a shaft or the like. From the said hub the integral arms 3, spaced substantially 90° apart, radiate. Each arm 3 is formed with a longitudinally extending inclined groove 4 and upon one side of said groove a perforation 5 extends entirely through the arm 3, said perforation upon one side of the arm opening into a circular depression 6 adapted to receive the head 7 of a screw 7^a, said perforation upon the opposite side of the arm 3 opening into a transverse groove 8 which groove cuts the arm upon both sides of the longitudinal groove 4, said groove 8 being of substantially less depth than the groove 4.

The said screw 7^a extends through the perforation 5 and is formed with a bent termination 9 adapted to lie in the groove 8, said bent termination extending through the perforation 10 formed in the blade 11 which blade is adapted to be seated in the said longitudinal groove 4. It will be noted that the head 7 of the screw 7^a is separate from the screw and is threaded interiorly for engagement with the straight threaded end of the screw. When the blade 11 is in its groove 4 and in engagement with the screw the said blade may be firmly and adjustably seated through rotation of the screw head 7. The bent end 9 of the screw is disposed in one end of the groove 8 and as the screw is drawn into its head 7 the said end is moved deep into the groove 8 which groove is of such size as to prevent any movement or play of the screw thus effectually preventing longitudinal movement or play of the blade in the holder. When the blade is in position in the holder its cutting edge extends beyond the plane of the adjacent face of the arm 3 thus permitting the cutting edge only of the knife to contact with the cutter plate in the chopper.

What is claimed is:—

1. In a knife holder, a body portion having spaced arms radiating therefrom, each of said arms being formed with a longitudinally extending knife-receiving groove, with a perforation extending through said arm upon one side of said groove and with a transverse groove connecting said perforation and said longitudinal groove, a screw head disposed in one end of said perforation, and a screw body adjustably connecting said screw head, said screw body being disposed in the said perforation and in the said transverse groove and engaging the knife.

2. In a knife holder, a body portion having integral spaced arms radiating therefrom, each of said arms being formed with a longitudinally extending knife-receiving groove co-extensive with said arm, with a perforation extending entirely through said arm upon one side of said groove and with

a transverse groove connecting said perforation and said longitudinal groove, said transverse groove being of substantially less depth than said longitudinal groove, a screw head disposed in one end of said perforation, and a screw body adjustably carried by said screw head, said screw body being formed with a bent knife-engaging termination, said screw body being disposed in the said perforation and in the said transverse groove.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two subscribing witnesses.

PHILIP GANZHORN.

Witnesses:

WM. HAROLD EICHELMAN,

H. J. SANDERS.