

H. E. SWEET.
CUTLERY GRINDER.
APPLICATION FILED SEPT. 9, 1909.

961,554.

Patented June 14, 1910.

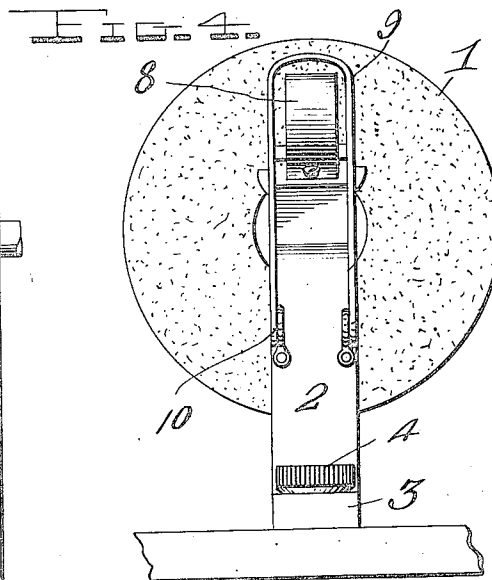
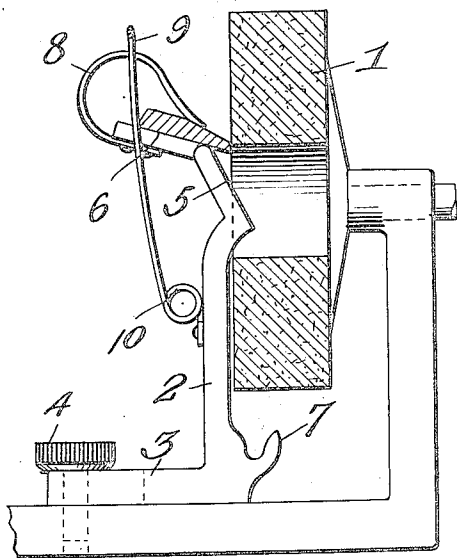
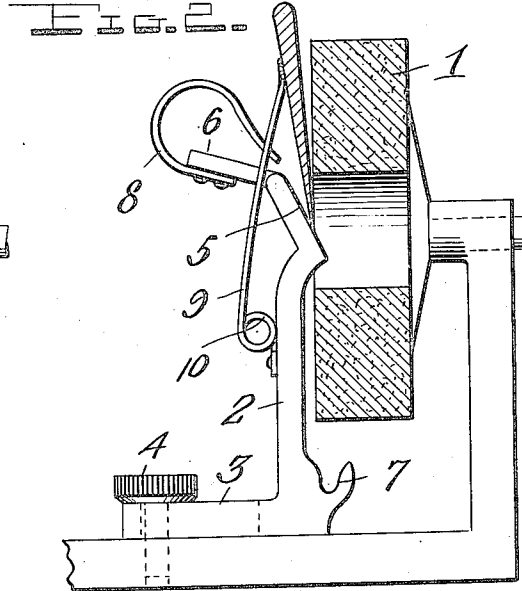
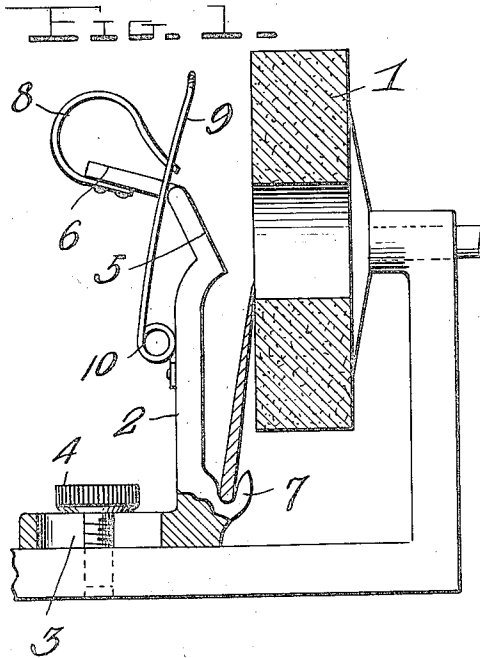


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

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CUTLERY-GRINDER.

961,554.

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To all whom it may concern:

Be it known that I, HOMER E. SWEET, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Cutlery-Grinders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in cutlery grinders and more particularly to the means for holding the cutlery in proper position for grinding.

One object of the invention is to provide an improved construction of cutlery holding mechanism having means whereby a knife, scissor blade or other form of cutlery may be held in position against the grindstone.

Another object is to provide a holder of this character which may be adjustably secured to any suitable support.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side view, partly in section of my improved holder and a portion of a grindstone, showing one way in which a knife blade is supported for grinding; Fig. 2 is a similar view showing another way in which the blade may be supported; Fig. 3 is a similar view, showing a scissor blade held in position for grinding; Fig. 4 is a front elevation of the holder and grindstone.

Referring more particularly to the drawings, 1 denotes a grindstone which may be of any suitable construction and which may be supported and operated in any suitable manner. My improved supporting mechanism comprises a standard 2 having a right angularly formed longitudinally slotted base 3 in which is arranged a clamping screw 4 whereby the base and standard may be adjustably secured to any suitable support. On the upper end of the standard 2 are formed angular inwardly inclined tool or cutlery supporting surfaces or rests 5 and 6 which are disposed at different inclinations and on the inner edge or side of the standard adjacent to its lower ends is formed a tool supporting seat 7. The sup-

porting surface or rest 5 and the seat 7 are provided to support and hold a knife blade in position for grinding the edge of the same by the adjacent side of the grindstone. The manner in which the blade is engaged with the seat 7 and held against the grindstone is clearly shown in Fig. 1 of the drawings.

In Fig. 2 of the drawing, is shown the manner in which the blade is held by the supporting surface or rest 5 when engaged by the grindstone. When the rest 5 is employed, the holder is preferably adjusted to bring the lower end of said surface into engagement with the hollow central portion of the stone and when in this position, the angle of the surface or rest 5 serves as a gage and holds the edge of the blade against the stone.

When the holder is employed for supporting a scissor blade, said holder is adjusted to the position shown in Fig. 3 of the drawings and the blade is engaged with the supporting surface or rest 6 so that the edge of the blade will engage the side of the stone at the proper angle. When using the device for holding a scissor blade, I preferably employ a blade clamping spring 8, one end of which is secured to the underside of the rest 6, while the other end is adapted to bear against the scissor blade and to clamp the same into engagement with the rest 6, as shown. In addition to the clamping spring 8, I also preferably employ a spring 9 for moving and holding the blade against the grindstone, as clearly shown in Fig. 3 of the drawings. The spring 9 is formed from a single piece of wire bent into approximately U-shaped form. The terminals of the wire are attached to the outer face of the standard and are bent to form coils 10, while the side pieces of the spring straddle the upper end of the standard and the spring 8 and are adapted to engage and hold a tool against the grind stone.

By means of a holding device constructed as herein shown and described, a knife or scissor blade may be securely held in proper position for engagement with a grindstone, whereby a keen, even edge will be formed on the blade.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion

and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined in the appended claims.

Having thus described my invention, what I claim is:

1. A tool holder of the class described comprising a supporting standard having portions of its outer end formed to provide a pair of inwardly inclined cutlery supporting surfaces which are disposed at different inclinations and are adapted to support different forms of tool blades in position for grinding, a longitudinally slotted base for the standard and a clamping screw passing through the slot of the base for holding the standard in adjusted position.

2. A tool holder of the class described comprising a supporting standard having portions of its outer end formed to provide a pair of inwardly inclined cutlery supporting surfaces which are disposed at different inclinations and are adapted to support dif-

ferent forms of tool blades in position for grinding, a blade clamping spring having one end attached to the outer end of the standard and its free end disposed over the outer supporting surface, and an approximate U-shaped spring having its terminals attached to the lower portion of the standard and formed with coils and its side pieces straddling the outer end of the standard and clamping spring, the side pieces of said U-shaped spring adapted to engage and hold a plate against the grinding wheel when placed on the outer supporting surface and the central portion of the spring adapted to engage and hold a plate against the grinding wheel when placed on the inner grinding surface.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HOMER E. SWEET.

Witnesses:

E. C. MINOR,
C. V. MINOR.