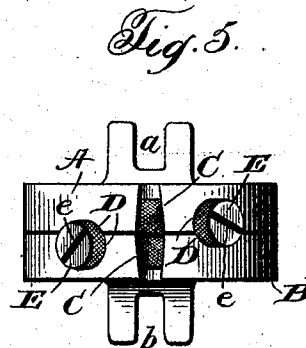
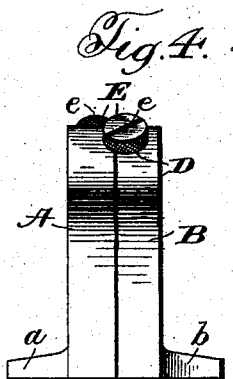
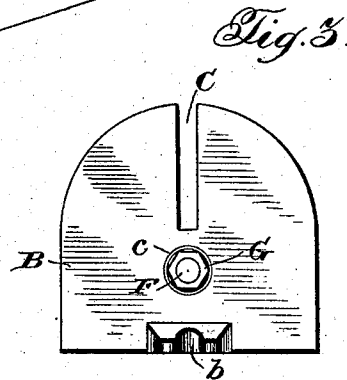
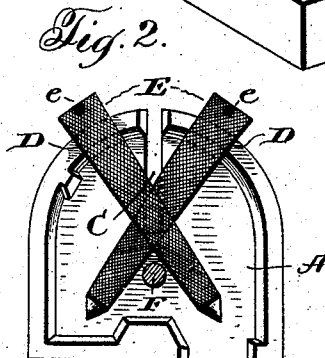
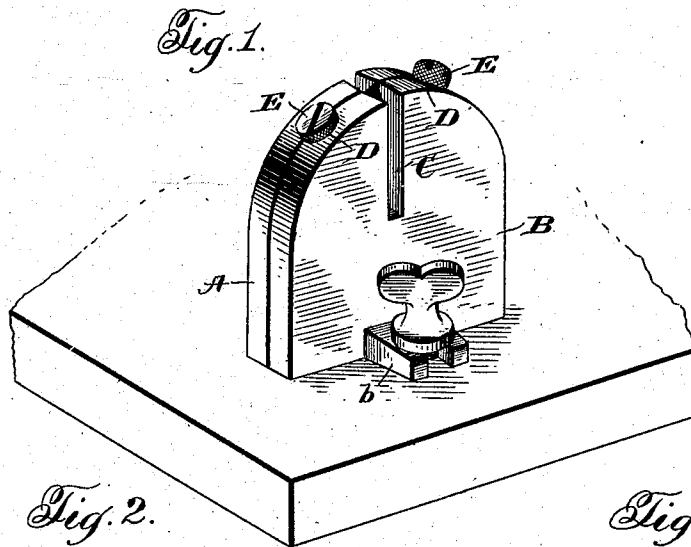


J. McK. MICHAELSON.
SHARPENING DEVICE.
APPLICATION FILED SEPT. 21, 1907.

918,689.

Patented Apr. 20, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES MCK. MICHAELSON, OF GENEVA, NEW YORK.

SHARPENING DEVICE.

No. 918,689.

Specification of Letters Patent.

Patented April 20, 1909.

Application filed September 21, 1907. Serial No. 393,998.

To all whom it may concern:

Be it known that I, JAMES MCK. MICHAELSON, citizen of the United States, residing at Geneva, in the county of Ontario and State of New York, have invented certain new and useful Improvements in Sharpening Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a sharpening device, and while it has reference to the sharpening of tools generally, contemplates more particularly the sharpening of knives or similar implements, when it is desired to present thereto a smooth cutting edge.

More specifically, the invention comprises a sharpening device of the character just described, with a novel support therefor, whereby the device may be rigidly held in position for operation.

The invention also includes means whereby the sharpening device may be quickly adjusted relative to its support, without removal therefrom, thereby presenting different points of contact for the implement to be treated.

The invention also has in contemplation means whereby the knife or other article to be sharpened is guided into position relative to the steel or sharpening device employed, and prevented from wobbling or lateral movement while in the process of treatment.

Other novel features and details of construction will be pointed out hereinafter in the description following, which should be read in connection with the accompanying drawings forming a part hereof, and wherein a preferable embodiment of the invention is disclosed for the purpose of illustration.

In the drawings Figure 1 is a perspective view showing the invention applied to a suitable support. Fig. 2 is a front elevation of one section of the holder with the sharpening tools in position, the other section of the holder being removed for the purpose of illustration. Fig. 3 is a detail view of the co-operating section of the holder detached. Fig. 4 is a side elevation of the device complete, and Fig. 5 is a top plan view of the same.

Referring now more particularly to the drawings wherein like reference characters designate corresponding parts throughout the several views, A and B respectively designate co-operating sections of a suitable holder, the same being preferably of metallic forma-

tion, and cup-shaped. Extending outwardly from the respective sections at a point in line with the bottom surfaces thereof are bolt receiving brackets or feet *a* and *b*, so arranged that the holder may be adjusted in upright position as upon the top of a bench or table as illustrated in Fig. 1, or otherwise secured, as upon a wall.

C represents a guide or slotted portion in the holder formed by aligned slots in the respective sections, the said slots extending downwardly a considerable distance in said sections, preferably centrally thereof. While I have illustrated the guide way relatively narrow, it is to be understood that this particular feature of the invention may be modified, according to the type of tool or tools which it is desired to sharpen.

D are apertures or openings in the holder, one upon each side of the guideway and formed by co-operating adjoining recesses in the respective sections. Adapted to be inserted in the respective recesses are a pair of steels E so arranged that they overlap intermediate their ends within the holder at a point in alinement with the guide way C.

While I have stated that the edge sharpening tools E are steels, yet I desire it to be expressly understood that any similar devices of like formation having roughened surfaces and sharpening qualities may be employed and are within the spirit of my invention. Therefore when I employ in the claims the term steel I desire it to be understood that any similar sharpening tool is contemplated, the term being used for the purpose of clearness.

Means are employed for adjusting the steels E whereby different points of contact may be presented into operative position relative to the guide way C and implement inserted therein. This adjustment may be either a rotary one with which end in view the respective steels have slotted outer terminals *e* for the reception of a screw driver or the like, or the same may be adjusted longitudinally by simply grasping the protruding outer ends and imparting either an inward or outward movement.

A common means is employed for holding the sections A and B in position as well as retaining the steels E in their adjusted positions, this means comprising an adjustable bolt or rod F having a screw threaded end engaged by a nut G adapted to rest in a recessed portion *c* in the outer surface of one of the sections.

The operation is obvious. The tool or article to be sharpened is guided into position by the guide way C, and is thereby held from lateral or wobbling movement while being drawn over the surfaces of the overlapping steels. When it is desired to present a different surface of the steels, the same may be done by imparting thereto a rotatable movement, or by loosening the sections of the holder through the medium of the bolt F and nut G, when the steels may be adjusted longitudinally.

What I claim is—

1. In a device of the character described, a hollow casing comprising oppositely disposed walls, each of which has inwardly projecting peripheral flanges, the casing having an elongated slot formed through the respective sections and extending inwardly from the outer edge thereof to constitute a guide for the implement to be sharpened, and said flanges having cooperating cutaway portions at their adjoining edges, one upon each side of said slot, and adapted for the reception of oppositely disposed steels, the said steels, and means for securing the sections of the casing together.

2. In a device of the character described, the combination of a casing comprising two detachable oppositely disposed similarly

formed sections cutaway at their adjoining edges to receive steels therebetween, the said steels, means for securing the sections together, and each section having a transverse slot alining one with the other when the sections are connected and constructed and arranged to constitute a guide for positively maintaining the article to be treated in fixed relation to the steels during reciprocation.

3. In a device of the character described, oppositely disposed inclined overlapping rotatably adjustable steels, a support therefor comprising oppositely disposed sections having complementary semicircular recessed portions for the reception of steels, a single means for holding the sections and steels in position comprising an adjustable bolt extending through the walls of the respective sections at a point between the steels below their overlapping point, the steels extending without the walls and having means adapted for the reception of a tool for rotatably adjusting the same.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES McK. MICHAELSON.

Witnesses:

LAWRENCE E. TYNDALL,
ADAM McK. MICHAELSON.