F. D. MARTIN.

REVERSIBLE WHETSTONE.

APPLICATION FILED JULY 6, 1909.

951,956.

Patented Mar. 15, 1910.

Fig. 1.

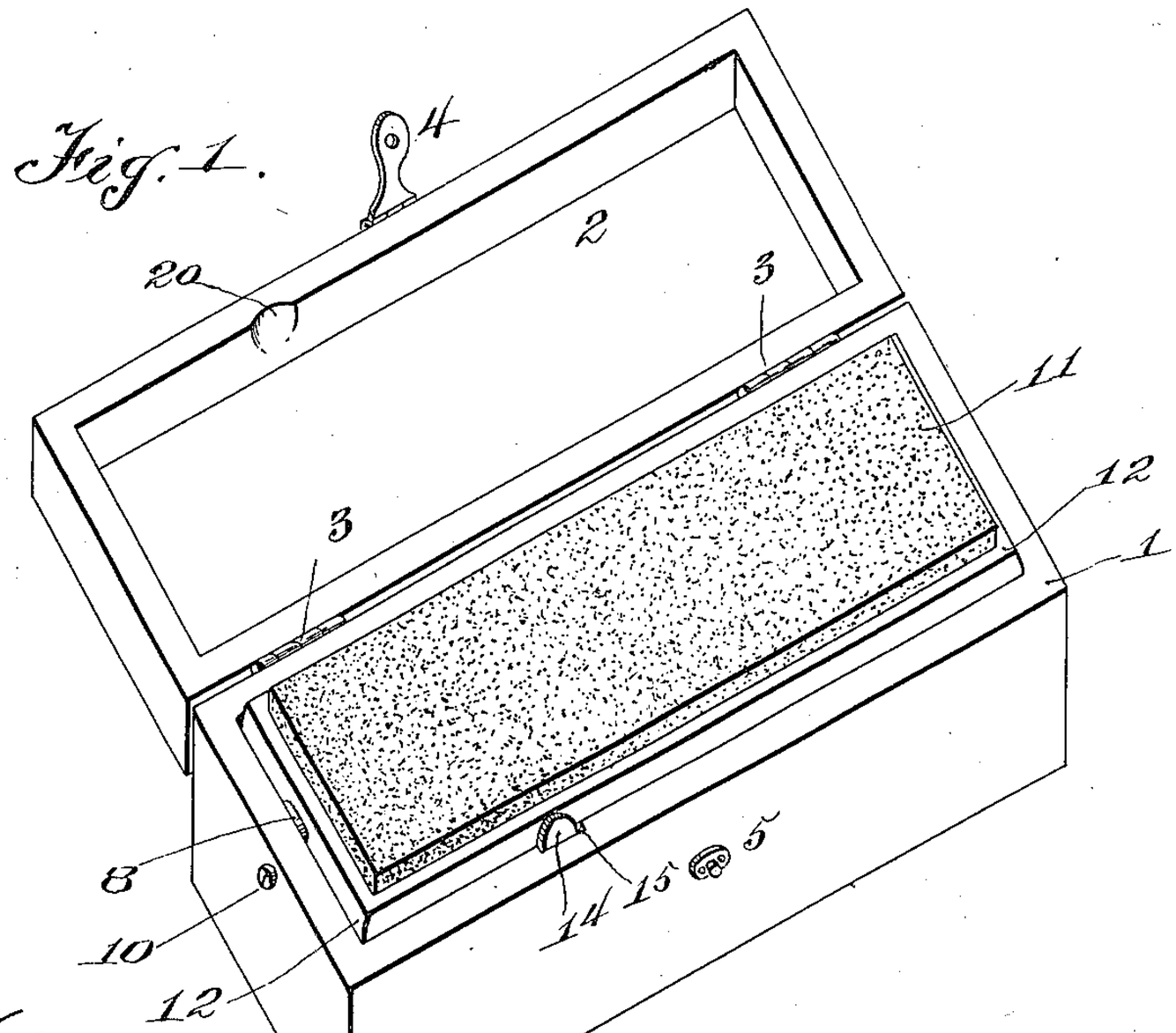


Fig. 3.

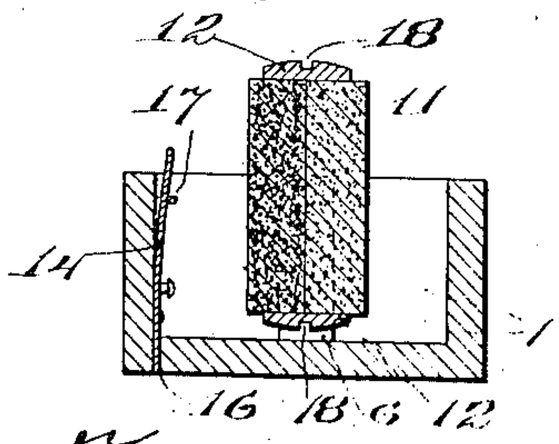


Fig. 2.

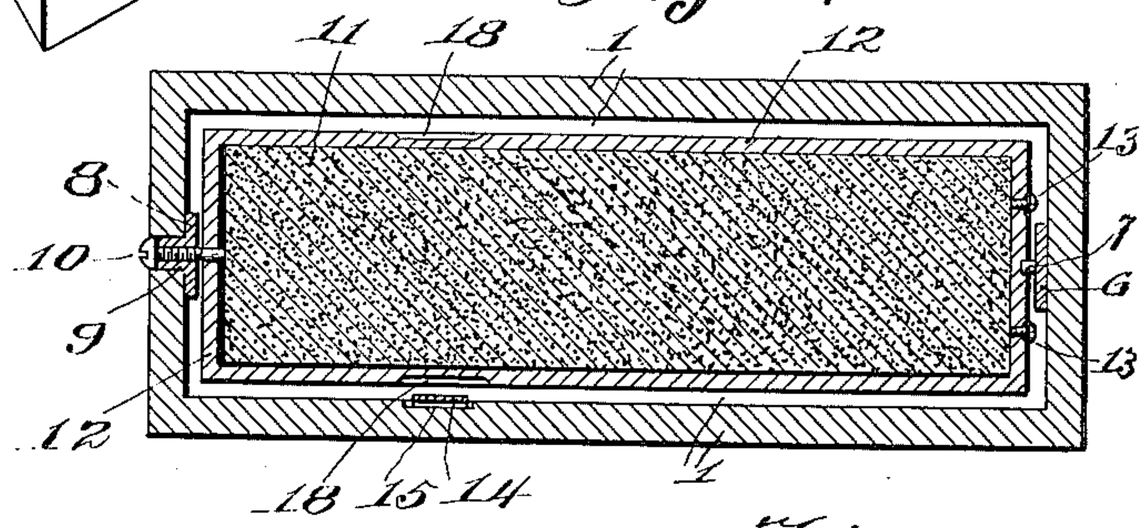


Fig. 4.

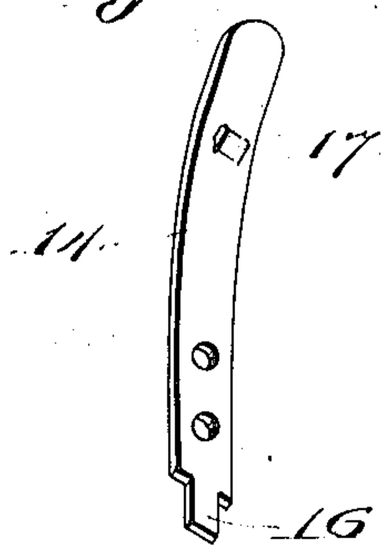


Fig. 6.

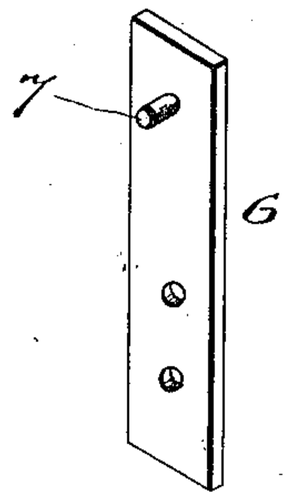
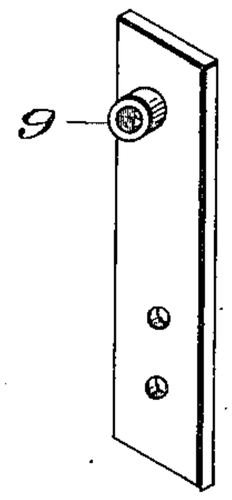


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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REVERSIBLE WHETSTONE.

951,956. Specification of Letters Patent. Patented Mar. 15, 1910.

Application filed July 6, 1909. Serial No. 506,120.

To all whom it may concern:

Be it known that I, FRANK D. MARTIN, a citizen of the United States, residing at Chester, in the county of Windsor and State of Vermont, have invented certain new and useful Improvements in Reversible Whetstones, of which the following is a specification.

This invention relates to hones, and pertains especially to the class of reversible whetstones or hones.

The object of the invention is to provide certain novel and peculiar devices for mounting and reversing whetstones or hones so that they may be expeditiously revolved and held in reversed position for sharpening razors, edge tools and the like.

A further object of the invention is to provide a hinged covered casing or box having novel and peculiar devices for pivotally hanging a whetstone therein, and having means for holding the stone against pivot movement.

As far as known to applicant, this class of stones or hones has been reversibly held at the ends by stands, frames or supports having various devices for holding and releasing the stone. Such devices require separate and independent operation, first to release for reversing the stone, and then to fix the stone in reversed position; such stones being exposed or without an inclosing box or casing.

It is therefore the purpose of this invention to overcome the various objections and disadvantages found in the usual mounting of reversible whetstones, and to provide an inclosing box or casing carrying means for clamping and pivoting the stone and its frame therein, and means within the box and operated by such frame to catch and hold the frame with the stone exposed in proper position for whetting.

In the accompanying drawings forming part of this application: Figure 1 is a perspective view showing the stone in position for whetting. Fig. 2 is a transverse sectional view taken through the pivot ends. Fig. 3 is a cross section taken through the spring catch with the stone in swinging position. Fig. 4 is a detail perspective view of the spring catch. Fig. 5 is a detail perspective view of one of the pivots. Fig. 6 is a similar view of the other pivot.

The same reference numerals denote the same parts throughout the several views of the drawings.

The box or casing 1 may be of any desired shape or size in keeping with the particular size and shape of the stone to be operated in it, but I prefer a rectangular box or casing having a flanged lid or cover 2 hinged at 3, and provided with a suitable clasp, latch or keeper 4 to engage a pin 5 on the side of the box. One end of the box has a plate 6 secured to its inner face, and said plate is provided with a pivot-pin 7; to the inner face of the other end of the box is secured a similar plate 8 having a collar 9 extending through the box end, this collar is screw-threaded internally and opens through the plate 8, for the purpose of operating an adjustable screw-pivot 10 therethrough from the outside of the box end. This pivot 10 has two functions as will hereinafter appear.

The stone 11 has whetting surfaces of two grades, and is held in a frame 12 at one end by set-screws 13, and at the other end by the pivot 10, which extends through this end of the frame and engages this end of the stone. The other end of the frame has a recess or cavity for the pivot-pin 7, so that the stone is clamped in the frame by the pivot 10, thereby permitting removal of the stone from the frame without removing the frame from the box.

The frame and its stone is held in reversible position by a spring catch 14, secured in a cavity 15 of the box side, and having a point 16 projecting into the bottom of the box adjacent said side. The free end of the catch has a projecting lip 17 to engage a groove or cavity 18 in the sides of the stone frame. This catch is operated by the frame in swinging, so that the lip will enter the frame groove and thereby hold the frame and its stone in proper position for whetting. To release the frame for reversing the stone, the catch is simply depressed or sprung backward. The side flange of the cover or lid has a notch or cut-out 20 for the top of the catch 14, so as to permit the lid to close the box without interfering with the catch.

It will be observed that the frame is pivoted adjacent the top edge of the box so as to expose either side of the stone sufficiently

above the frame and the top edge of the box for whetting purposes without interference with any part of the box.

It is obvious that the frame may be fitted with various stones as desired without removing the frame from the box; that one and the same operation of the screw-pivot will clamp the stone in the frame and connect the latter with the box; and that by simply tilting or swinging the frame it will reverse itself and operate the catch to hold it in reversed position.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In reversible whetstones, the combination, with a frame fitting the stone, and a covered box or casing for inclosing the stone and in which the frame is hung for reversing the stone, of a fixed pivot for one end of the frame, a screw-pivot operated through the other end of the frame for holding the stone in the frame and adapted to permit the frame to swing thereon for reversing the stone, and means for holding the frame in reversed position.

2. In reversible whetstones, the combination, with a frame fitting the stone, and a covered box or casing for inclosing the stone and in which the frame is hung for reversing the stone, of a pair of plates secured to the box ends one of which plates having a fixed pivot and the other an adjustable pivot adapted to be operated for pivoting the frame and for holding the stone in the frame, and a spring catch carried within the box and engaging the frame for holding it in reversed position.

In witness whereof I hereunto set my hand in the presence of two witnesses.

FRANK D. MARTIN.

Witnesses:

ALICE A. HENRY,

HUGH HENRY.