

No. 632,755.

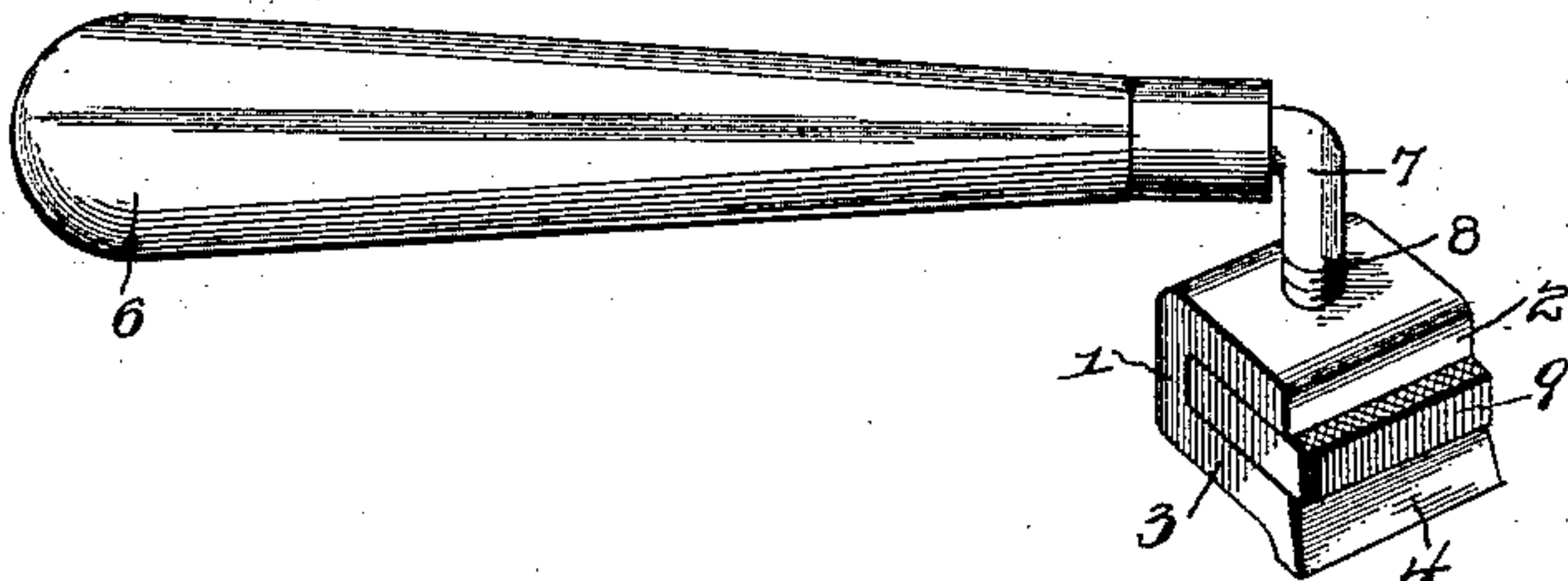
Patented Sept. 12, 1899.

H. SCHIPKE.  
EDGE TOOL SHARPENER.

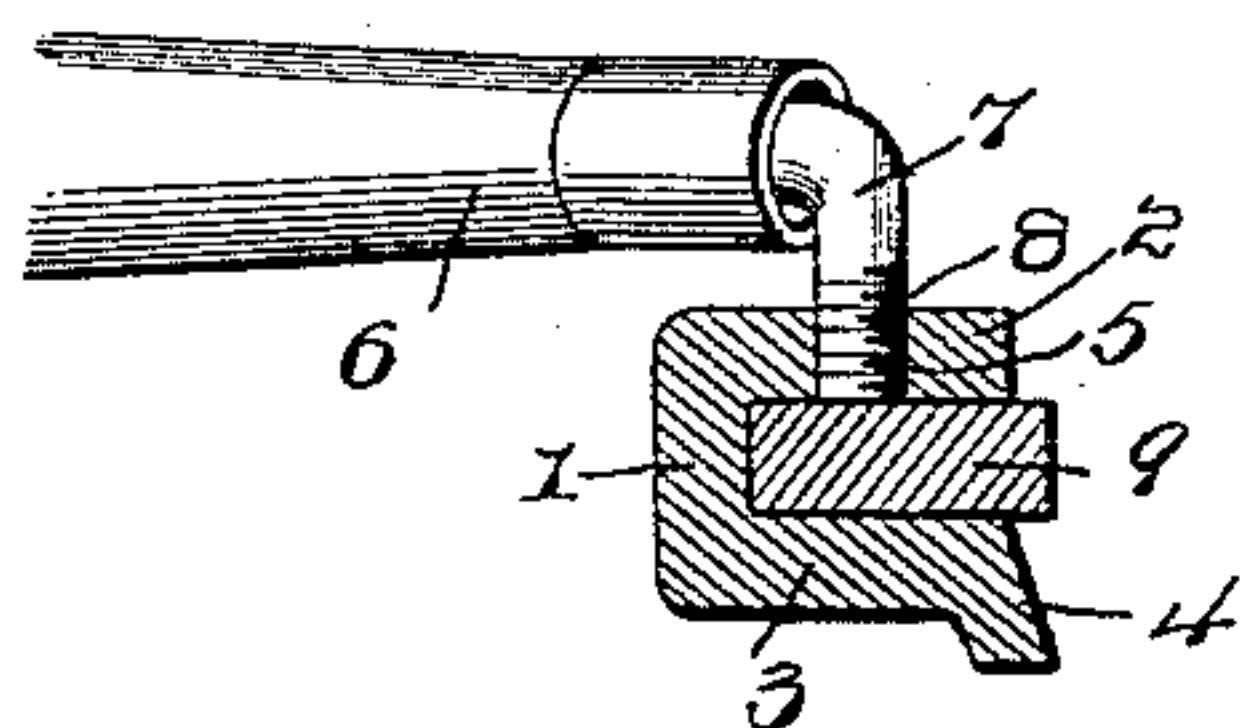
(Application filed Jan. 31, 1899.)

(No Model.)

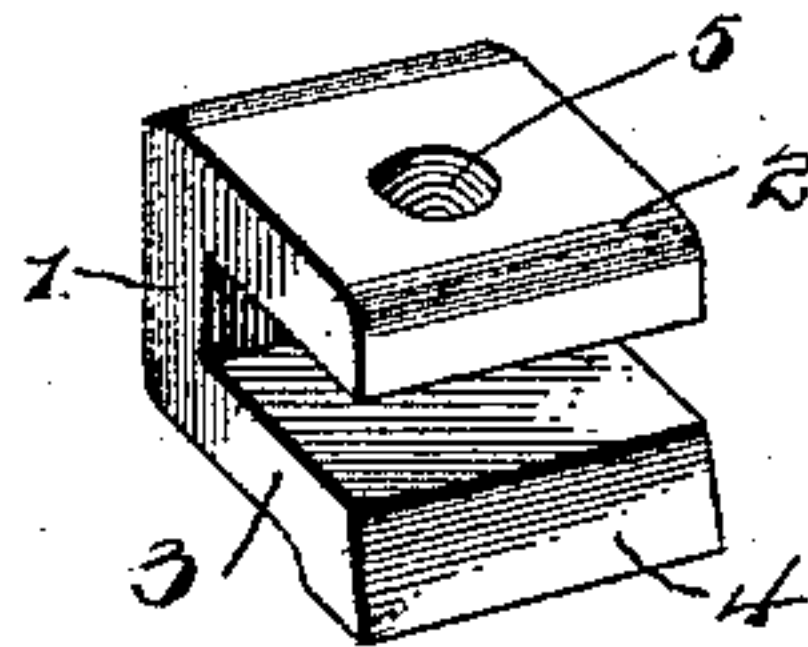
*Fig. 1.*



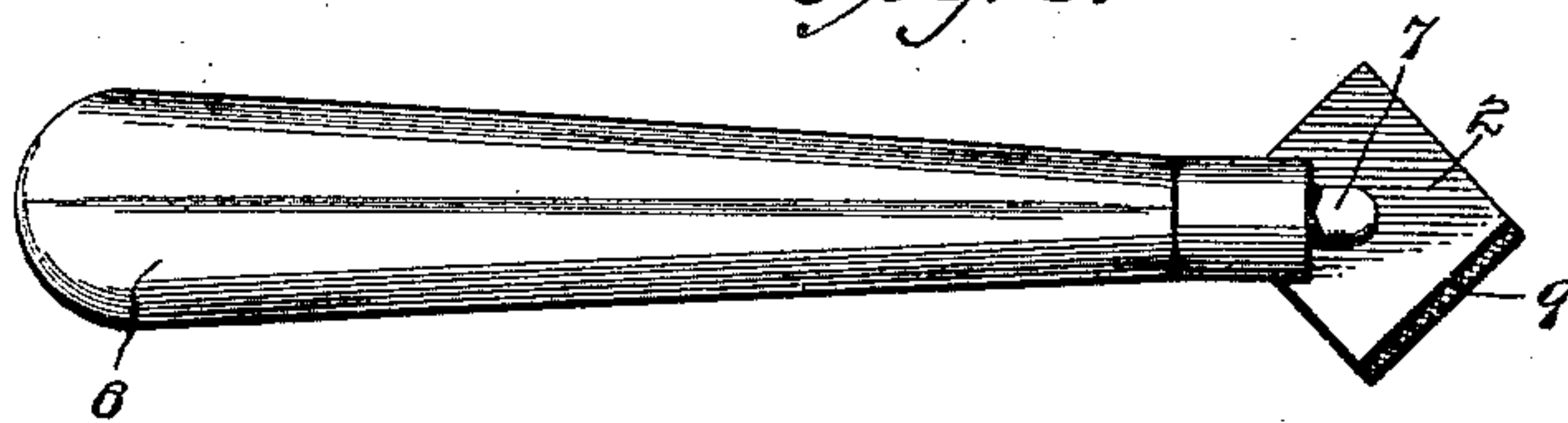
*Fig. 2.*



*Fig. 4.*



*Fig. 3.*



Witnesses

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# UNITED STATES PATENT OFFICE.

HERMANN SCHIPKE, OF BETHLEHEM, PENNSYLVANIA.

## EDGE-TOOL SHARPENER.

SPECIFICATION forming part of Letters Patent No. 632,755, dated September 12, 1899.

Application filed January 31, 1899. Serial No. 704,049. (No model.)

*To all whom it may concern:*

Be it known that I, HERMANN SCHIPKE, a citizen of the United States, residing at Bethlehem, in the county of Northampton and State of Pennsylvania, have invented a new and useful Edge-Tool Sharpener, of which the following is a specification.

This invention relates to sharpening devices for edge tools, and has for its object to provide a simple and improved implement for holding a file or the like, and is especially designed for sharpening lawn-mower blades.

To this end the invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of the device. Fig. 2 is a sectional view taken transversely through the clamping-head. Fig. 3 is a top plan view of the device. Fig. 4 is a detail perspective view of the clamping-head.

Corresponding parts are designated by like reference characters in all the figures of the drawings.

Referring to the drawings, 1 designates a clamp-head having the upper and lower fixed jaws 2 and 3, respectively. The head is formed from a flat approximately U-shaped casting having an integral outwardly and downwardly beveled lip 4 upon the outer free end of the lower jaw 3. The upper jaw is provided with a threaded opening formed centrally through the jaw and communicating with the space between the jaws. This clamping-head is carried by a suitable handle 6, having an approximately L-shaped shank 7 at one end thereof. One arm of the shank is fitted longitudinally in the end of the handle, and the other arm is threaded, as at 8, and depends transversely across the end of the handle. A suitable file-blade 9 or other abrasive surface is fitted snugly between the jaws of the head, and the threaded portion of the shank 7 is fitted in the opening 5 of the jaw 2. By turning the handle-body upon the shank as a center the threaded portion of the shank will act as a set-screw and clamp the file-blade tightly between the jaws of the clamping-

head. The file-blade should be wide enough to project beyond the guide-lip 4, so as to expose the abrasive under face of the file.

By reference to Fig. 3 it will be noted that the clamping-head is set at an angle to the longitudinal axis of the handle and not squarely across the same. The file-blade is preferably of a length equal to that of the clamping-head, so that there may be no projections at either side of the device. The shank forming a set-screw may be loosened and the file-blade adjusted out over the guide-lip 4, as desired, and the file may be reversed as it becomes worn.

In the operation of the device the handle is held in one hand with the shank extending out between the thumb and forefinger, and the guide-lip 4 is placed against one edge of the blade to be sharpened, which disposes the file against the transverse edge of the blade, and by moving the device back and forth upon the blade the file will grind the transverse edge thereof. The guide-lip 4 may be given any desired bevel or inclination, so as to give the device the proper set. By reason of the disposition of the clamping-head the device has a drawing action upon the blade being sharpened, and the lip 4 guides the device and prevents accidental turning thereof.

Changes in the form, proportion, size, and the minor details of construction within the scope of the appended claims may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed is—

1. An edge-tool sharpener comprising a handle having a screw-threaded attaching-shank, and a clamping-head adapted to receive a file, carried by the shank, said file being held in position in the head by the attaching-shank which forms a set-screw for that purpose, substantially as shown and described.

2. An edge-tool sharpener, comprising a handle, a clamping-head adapted to receive a file and carried by the handle, said file and clamping-head being held at an angle oblique to and disposed at one side of the longitudinal plane of the handle, substantially as shown and described.

3. An edge-tool sharpener, comprising a han-



dle having an attaching-shank, a substantially U-shaped clamping-head carried by the shank, the head being adapted to receive a file which is adjustably held in place by the shank, and a transverse guide-lip projecting laterally from the outer end of one side of the head and beveled on its inner face, substantially as shown and described.

4. An edge-tool sharpener, comprising a handle having a substantially L-shaped attaching-shank, a substantially U-shaped clamping-head carried by the shank, and a file-blade fitted between the sides of the U-shaped head, the shank being adapted to adjustably connect the file-blade to the head, substantially as shown and described.

5. An edge-tool sharpener, comprising a handle having an attaching-shank, a clamping-head carried by the shank, and a file-blade fitted in the clamping-head, the shank being adapted to adjustably connect the file-blade

with the head, substantially as shown and described.

6. An edge-tool sharpener, comprising a handle having an approximately L-shaped attaching-shank, the projecting portion of which is threaded, an approximately U-shaped clamping-head having a threaded opening formed through one side of the head and communicating with the space between the sides thereof, and a file-blade fitted in the space between the sides of the head, the threaded shank being adapted to be fitted in the threaded opening and clamp the file to the head, substantially as shown and described.

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

HERMANN SCHIPKE.

Witnesses:

R. W. LEIBERT,

JOSEPH M. LEIBERT, Jr.