

(No Model.)

C. H. PAINE.
BILLIARD CUE TIP SHARPENER.

No. 587,016.

Patented July 27, 1897.

Fig. 1.

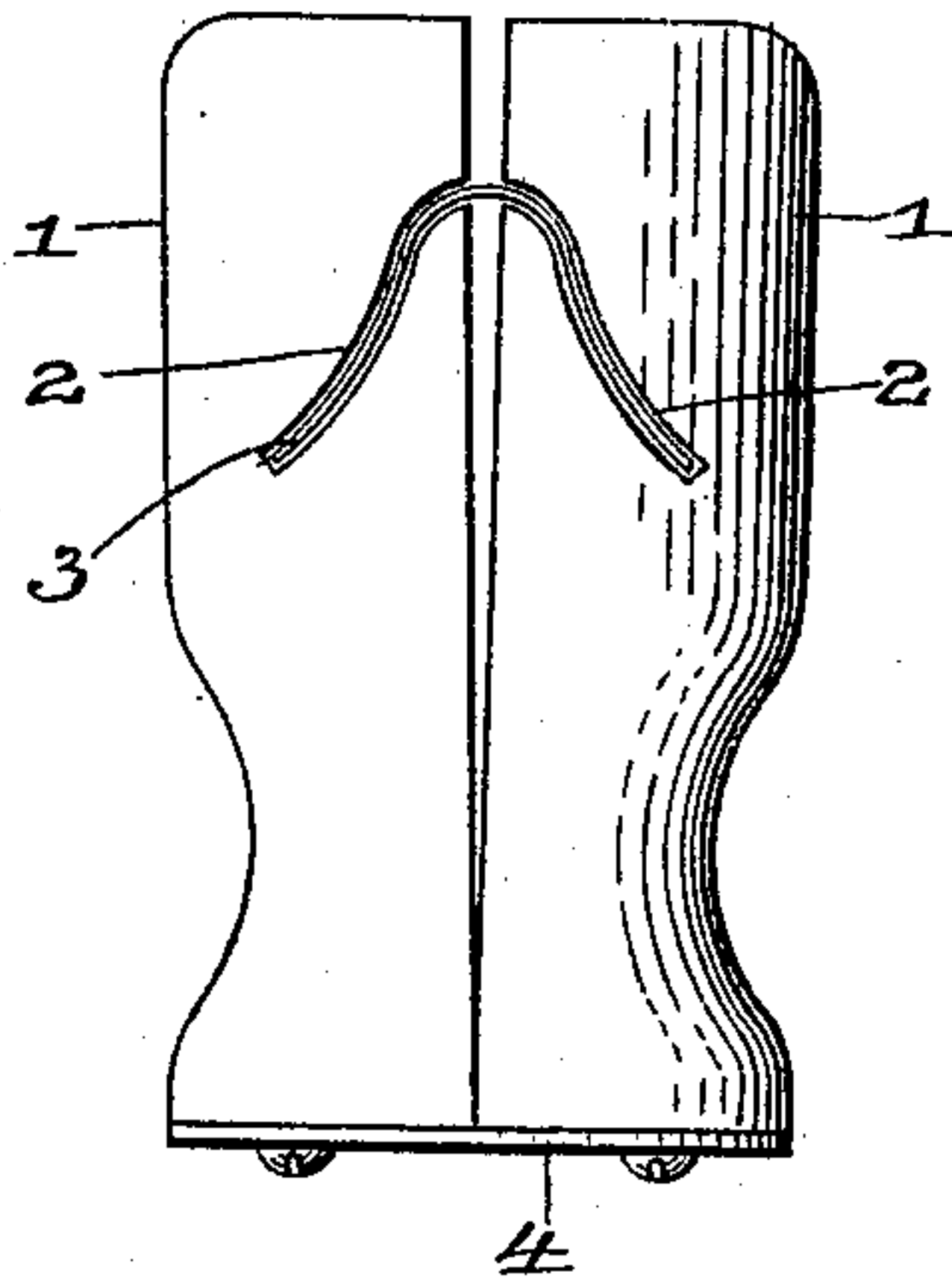


Fig. 2.

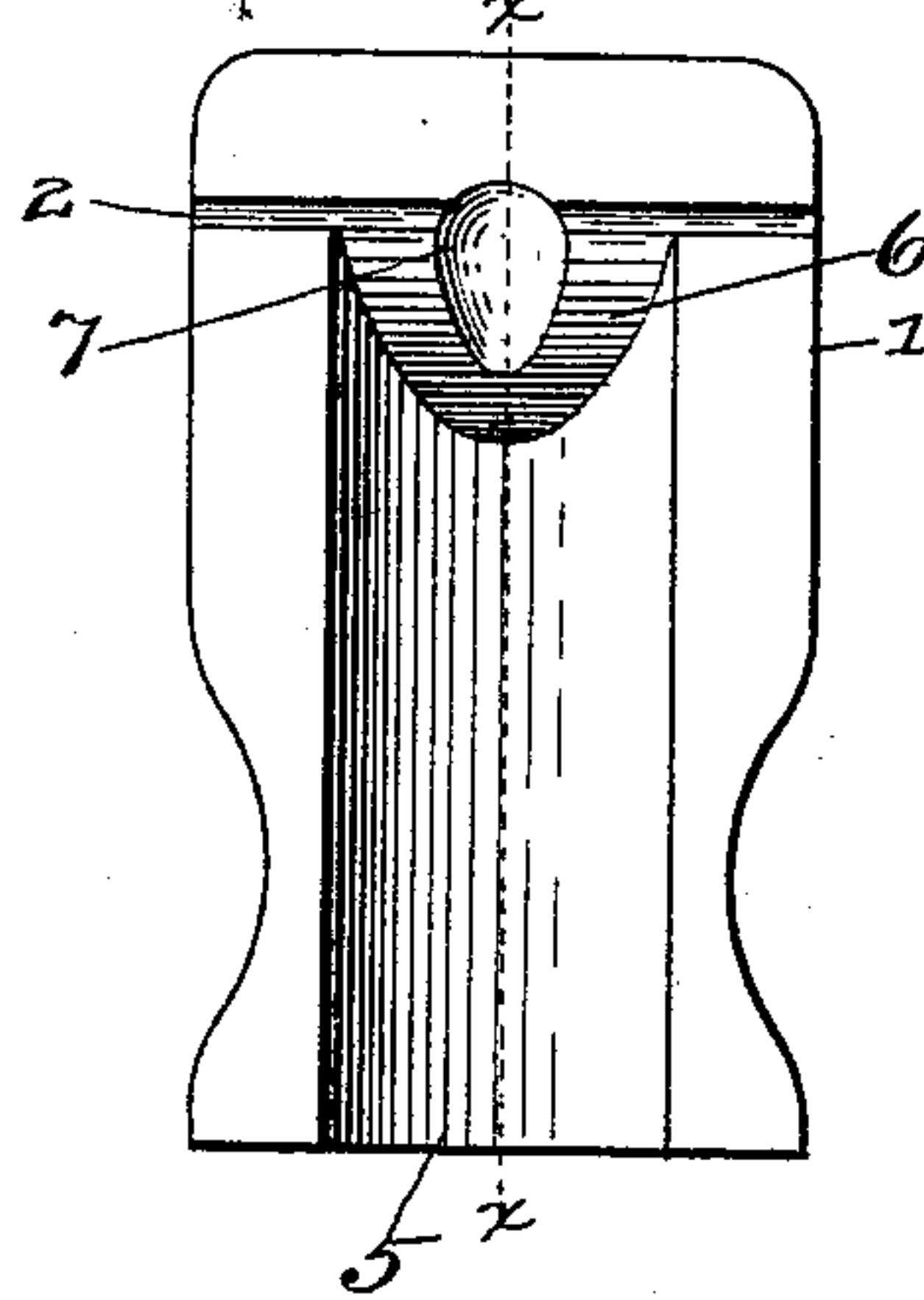


Fig. 3.

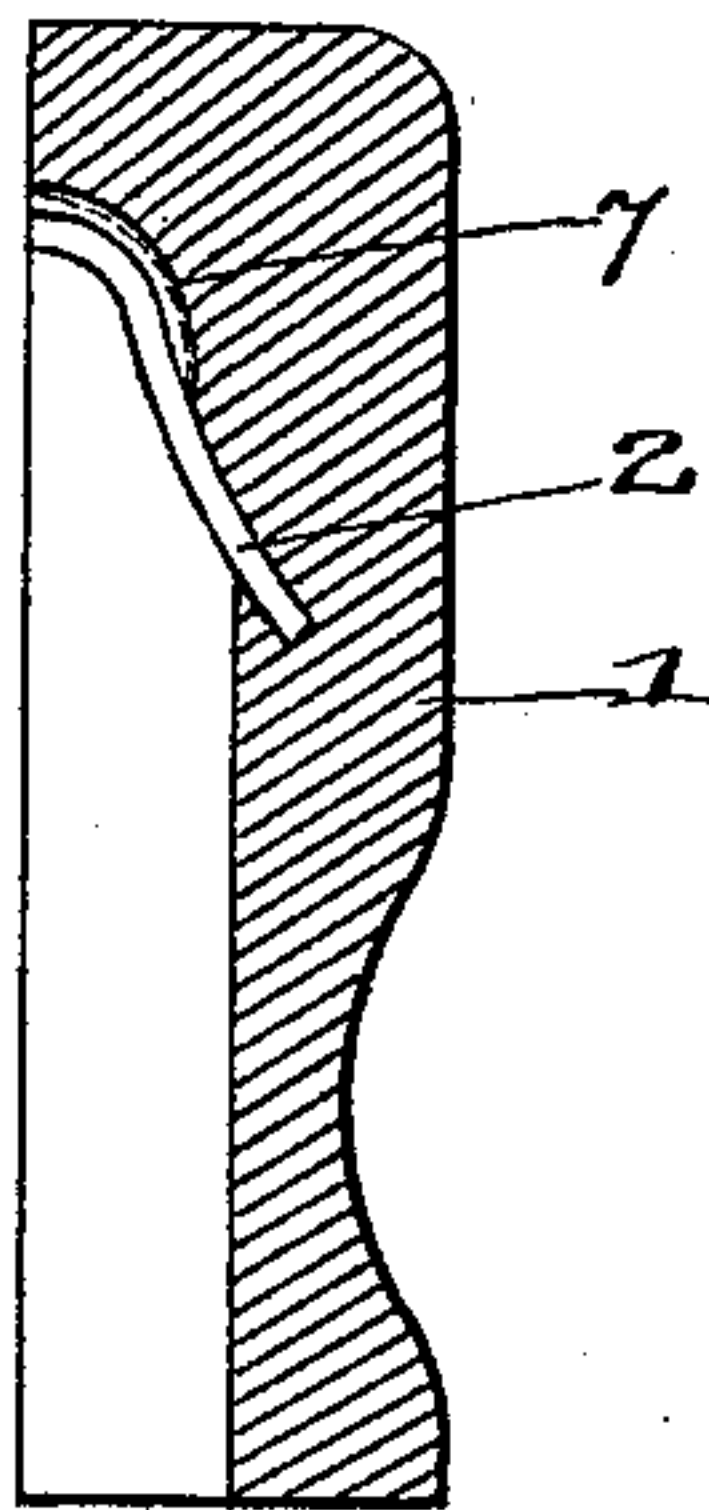
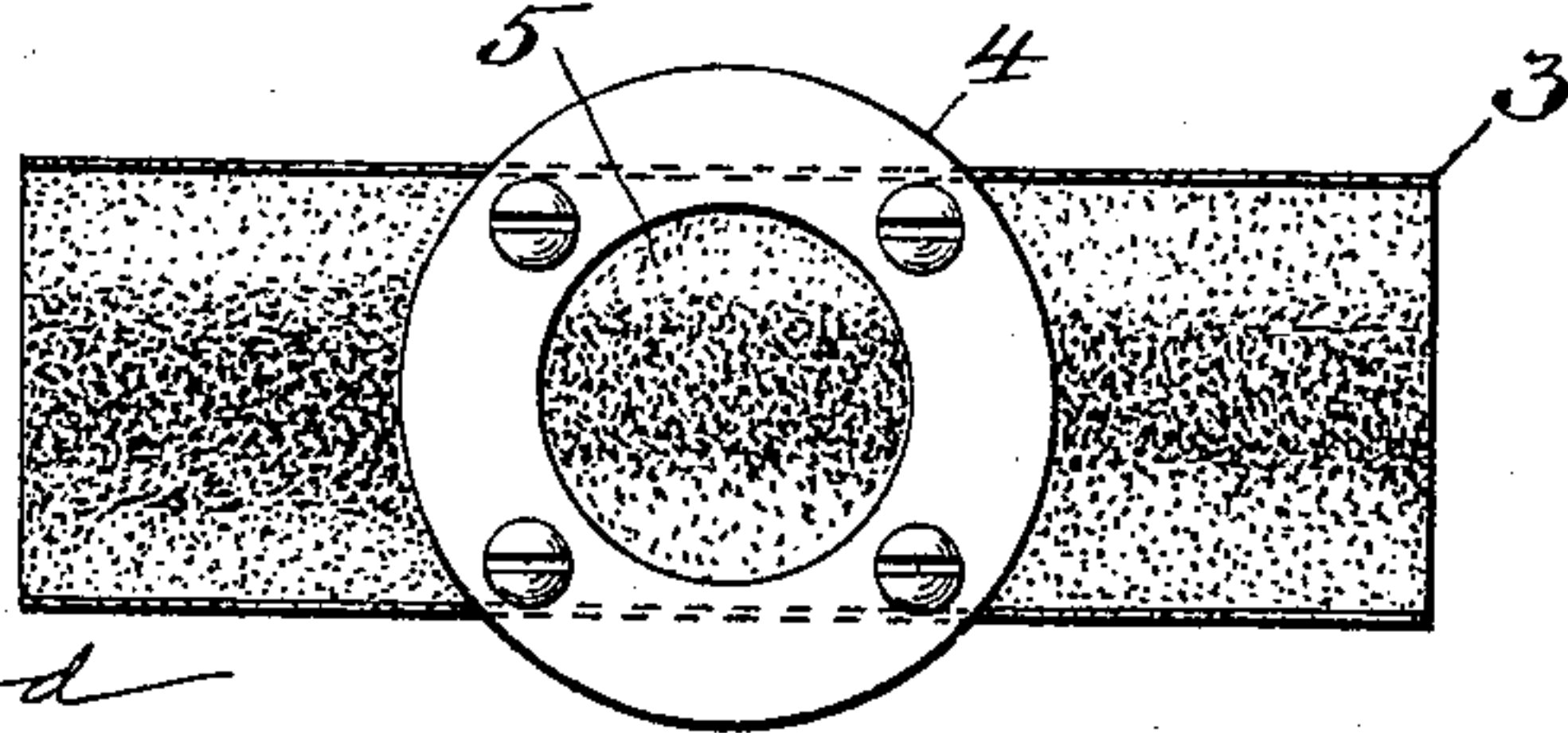


Fig. 4.



Witnesses

Joseph Blackwood
F. H. Schott

C. H. Paine
Inventor
by *Walter F. Rogers*
his Attorney

UNITED STATES PATENT OFFICE.

CHARLES HERMAN PAINE, OF THE UNITED STATES ARMY.

BILLIARD-CUE-TIP SHARPENER.

SPECIFICATION forming part of Letters Patent No. 587,016, dated July 27, 1897.

Application filed May 13, 1897. Serial No. 636,359. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HERMAN PAINE, a second lieutenant in the United States Army, stationed at Fort Niagara, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Billiard-Cue-Tip Sharpeners; and I do hereby 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.

My invention relates to devices for sharpening the tips of billiard-cues, and has for its object to produce a simple, easily-made, readily-handled, and efficient device.

It consists, essentially, of a tool adapted to be easily grasped by the hand, the tool composed of halves, each centrally bored and held together by a ring at the bottom, complementary kerfs at the top, serving to hold securely and yet adjustably a flexible polishing or abrading material, such as flint-paper, glass-paper, or sandpaper.

In the drawings, Figure 1 is a side elevation of the tool with the abrading-paper in place. Fig. 2 is an elevation of one of the halves, looking into the bore. Fig. 3 is a section on the line *xx* of Fig. 2, and Fig. 4 is a bottom plan view of the device.

1 represents each of the halves.

2 represents the kerf, made to receive the abrading material; 3, the abrading material; 4, the ring joining the two halves, and 5 the bore, adapted to receive the end of a billiard-cue. This bore extends to the upper or entrant part of the kerf in each half and then declines so that the kerf forms in each half at the end of the bore the inclined face 6. In this inclined face the recess 7 is cut or gouged.

The halves, preferably of wood, are shown as held together flexibly by a ring, preferably of brass or a similar metal.

A cue-tip may be inserted in the bore and the halves pressed together by the hand until

the device closely fits and grasps the end of the cue, whereupon a rotation of either the cue or the device will serve to subject the tip to the abrading action of the flint-paper or other medium occupying the kerfs.

Flint-paper, for example, is slightly flexible, and the recess 7 permits the tip to force the paper to line the recess, so that instead of having a single line only of the tip touching the inclined face 6 at any instant the recess permits the paper to contact with a considerable surface of the tip, so that the abrading action is improved and expedited.

The arrangement of the paper in the kerfs is such that it may be drawn along to present a fresh surface when so desired and may be readily removed and replaced.

It is apparent that the parts may be hinged together and that changes of line or configuration may be made without altering the character of my invention.

Having fully described my invention, what I desire to secure by Letters Patent is—

1. A device for sharpening billiard-cue tips, and for similar purposes, having two flexibly-connected and bored parts, and an abrading material extending across the bore, substantially as described.

2. The combination in a device for sharpening cue-tips, of halves bored to be adapted to receive the end of a billiard-cue, having kerfs adapted to receive an abrading material, and a ring connecting the two halves, substantially as described.

3. The combination in a device for sharpening billiard-cue tips, and for similar purposes, of flexibly-connected parts, 1, kerfs or openings, 2, having a bore, 5, inclines, 6, recess, 7, and a flexible abrading material, 3, substantially as described.

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

CHARLES HERMAN PAINE.

Witnesses:

LAURANCE K. JONES,
WM. H. JONES.