No. 892,052. PATENTED JUNE 30, 1908.

LE ROY M. HILDRETH.

SCRAPER.

APPLICATION FILED JAN. 15, 1908.

2 SHEETS—SHEET 1.

Fig 1.

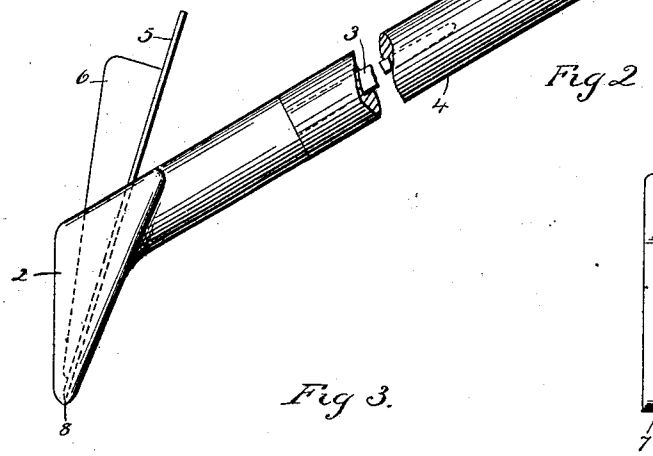


Fig 2.

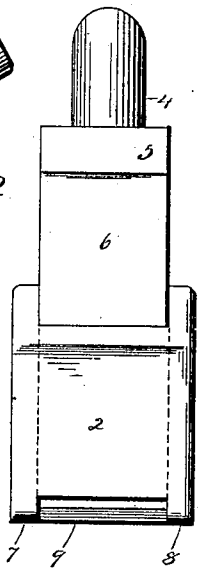


Fig 3.

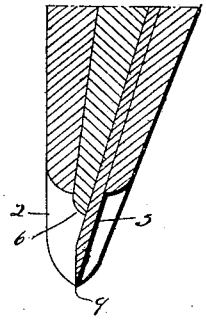


Fig 4.

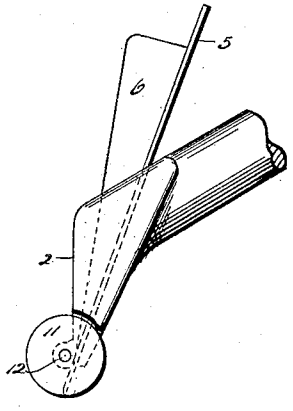
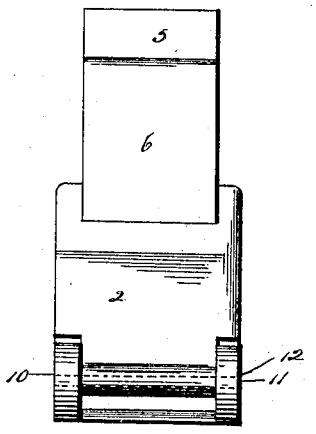


Fig 5.



Witnesses
C. J. Reed.
C. L. Reed

LeRoy M. Hildreth
Inventor
by Seymour & Coon
attys

THE NORRIS PETERS CO., WASHINGTON, D. C.

No. 892,052. PATENTED JUNE 30, 1908.

LE ROY M. HILDRETH.

SCRAPER.

APPLICATION FILED JAN. 15, 1908.

2 SHEETS—SHEET 2.

Fig 6.

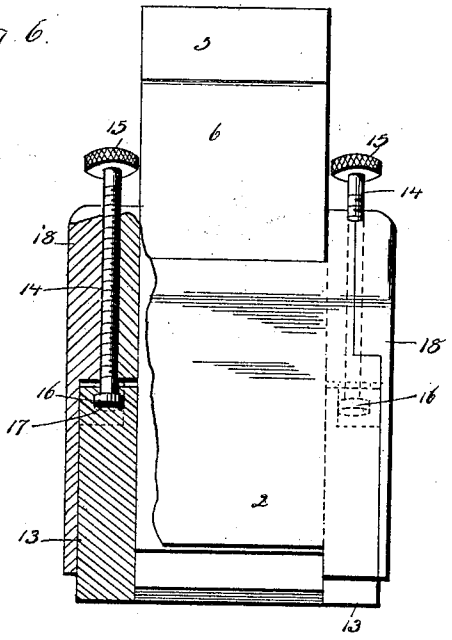


Fig 7

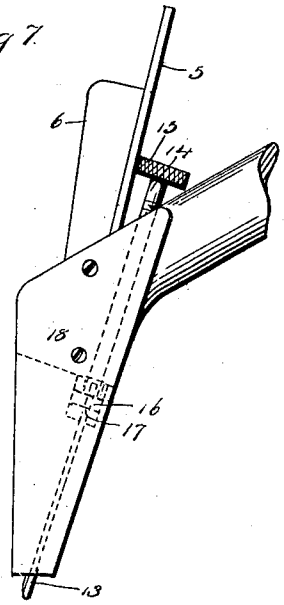


Fig 8

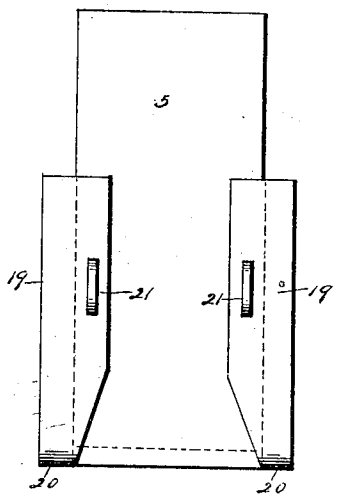
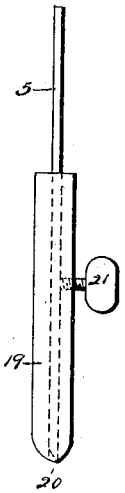


Fig 9



Witnesses
C. J. Reed.
C. L. Reed

Le Roy M. Hildreth
Inventor
by Seymour & Earle
Attys

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LE ROY M. HILDRETH, OF NEW HAVEN, CONNECTICUT.

SCRAPER.

No. 892,052. Specification of Letters Patent. Patented June 30, 1908.

Application filed January 15, 1908. Serial No. 410,882.

To all whom it may concern:

Be it known that I, LE ROY M. HILDRETH, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Scrapers; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a side view of a scraper constructed in accordance with my invention. Fig. 2 a rear view thereof. Fig. 3 a broken vertical section of the lower part of the head, enlarged. Fig. 4 a side view showing a modified form of bearings. Fig. 5 a rear view of the same. Fig. 6 a broken front view of the holder having adjustable bearing edges. Fig. 7 a side view of the same. Fig. 8 a front or plan view of the scraper having bearing edges applied to opposite sides thereof. Fig. 9 an edge view of the same.

This invention relates to an improvement in scrapers, and while particularly adapted for scraping floors in finishing the surfaces thereof, is adapted for various other purposes for which a scraper is commonly employed in working wood or metal.

The object of this invention is to provide a holder for a scraper blade with bearings which limit the depth of cut within the various angles to which the blade must be turned; and the invention consists in the construction hereinafter described and particularly recited in the claims.

Preferably and as herein shown the holder consists of a head 2 having a shank 3 to which the handle 4 is attached in the usual way. This head 2 is of substantially wedge-shape having an opening through it to receive the cutting blade 5 and a locking wedge 6. The central portion of the lower edge of the head is cut away or the lower ends 7 and 8 of the sides are extended below the edge of the head, and these ends are formed with transverse bearing edges on which the head may be rocked. The edge 9 of the cutting blade 5 is formed in the usual manner, and this edge is brought into a plane substantially in line with the plane of the bearing edges 7 and 8 so that the head may be rocked on these bearings 7 and 8 to bring the edge of the blade into proper position. The angle at which the blade is held depends upon the extent to which the edge has been turned over, and in some cases to the character of the surface being finished, but by providing a transverse or edge-like bearing in substantially the plane of the edge of the blade this head may be rocked as required. Furthermore by forming the edge-like bearing or support for the blade, the tool may be worked close to the baseboard of floors or around other points where it is usually impossible to work with a blade carried by a holder. Instead of extending the sides of the head down to form bearings, the sides may be cut away to give clearance for rollers 10 and 11 which are mounted on an axle 12 supported by the head, these rollers being so arranged that the head may be turned on the rollers to a slight extent so as to bring the edge of the cutter in proper position on the surface to be finished.

If desired, the bearings may be made adjustable with relation to the head and consist of slides 13 arranged in slots in the sides of the head, the slides being connected with adjusting screws 14 having knurled heads 15 by which they may be turned, the inner end of each screw has a disk 16 attached to it to enter a slot 17 in the slide whereby the screw is virtually swiveled to the slide and so that by turning the screw the slide may be moved up and down to adjust its lower end with relation to the edge of the blade. The screw and slide will be held in place by plates or caps 18 attached to the sides of the head. Instead of making the holder in the form of a head, it may be in the form of clips 19 having bearing edges 20 and slotted to permit them to be passed onto opposite sides of the blade 5 to which they may be clamped by screws 21. It will thus be apparent that the bearings may be variously arranged and applied to various forms of holders.

By providing bearings as herein described, the so-called "chattering" which is liable to occur in other scrapers as commonly used, without bearings, is avoided. They also prevent cutting deeper on the soft places than on the hard.

I claim:—

1. In a scraper, the combination with a blade, of edge-like bearings on opposite sides

thereof in the plane of the front face of the blade.

2. A scraper comprising a head, a blade, means for securing the blade in the head, extensions on opposite sides of the blade, said extensions formed with transverse edge-like bearings in the plane of the front face of the blade.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

LE ROY M. HILDRETH.

Witnesses:
FREDERIC C. EARLE,
CLARA L. WEED.