

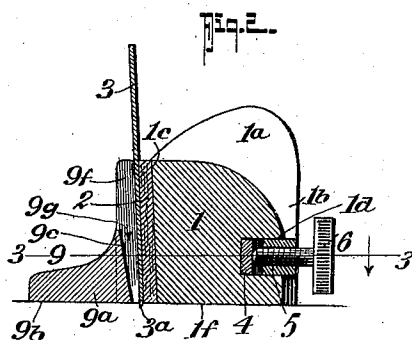
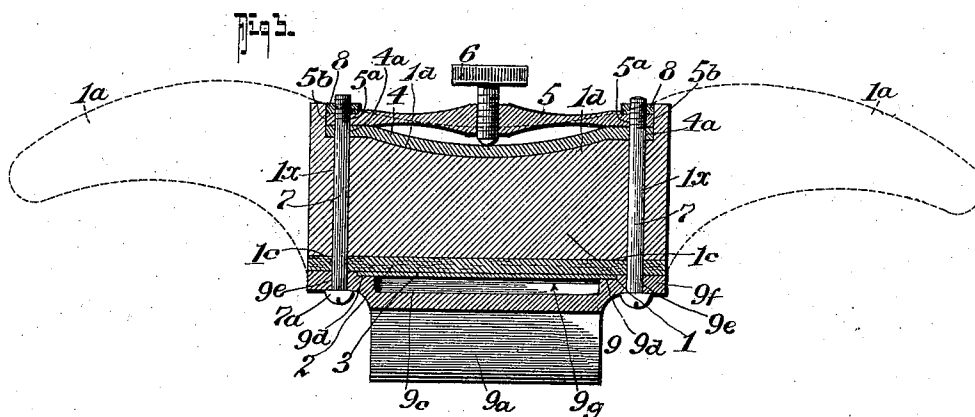
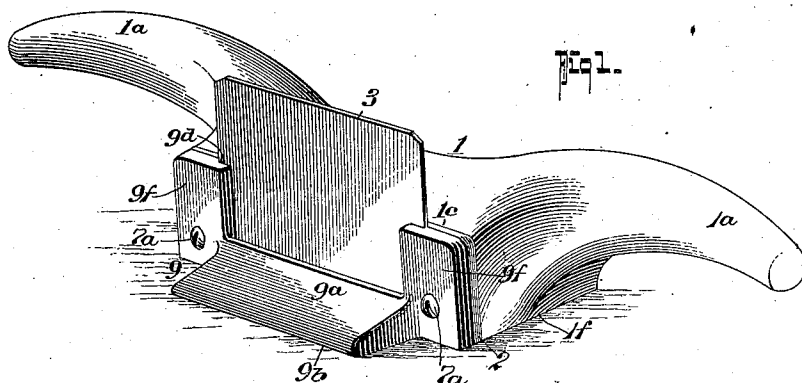
No. 876,789.

PATENTED JAN. 14, 1908.

W. ERDMANN.
SCRAPER.

APPLICATION FILED AUG. 28, 1907.

2 SHEETS—SHEET 1.



WITNESSES:

John T. Schrott
Chas. Wagner

INVENTOR

William Erdmann

BY

Fred G. Dietrich & Co
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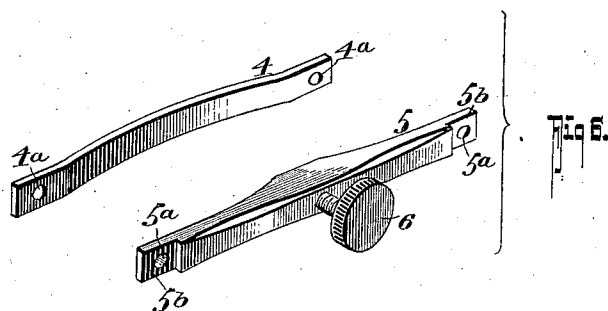
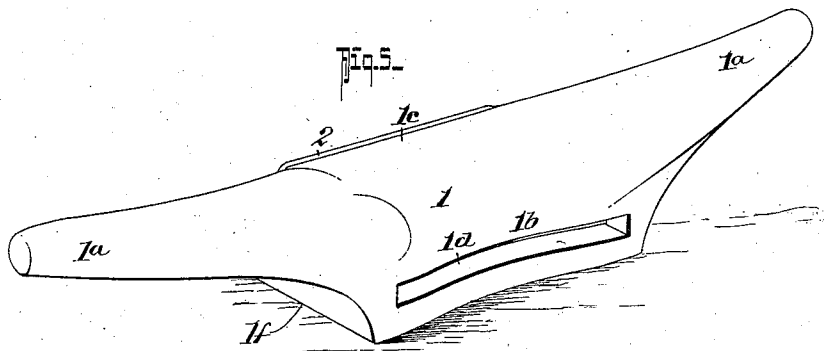
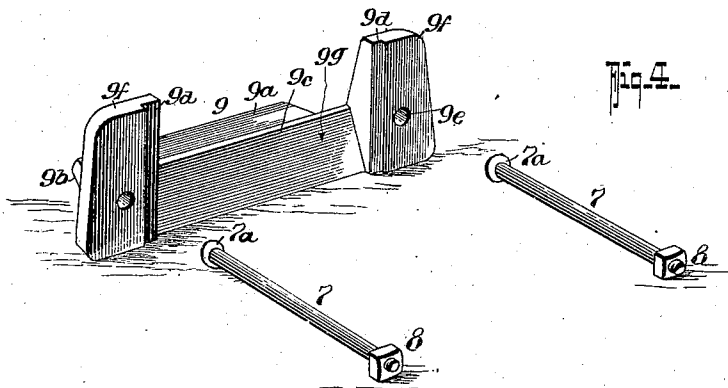
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UNITED STATES PATENT OFFICE.

WILLIAM ERDMANN, OF MADISON, WISCONSIN.

SCRAPER.

No. 876,789.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed August 28, 1907. Serial No. 390,520.

To all whom it may concern:

Be it known that I, WILLIAM ERDMANN, residing at Madison, in the county of Dane and State of Wisconsin, have invented a new and Improved Scraper, of which the following is a specification.

My invention relates to certain new and useful improvements in scrapers for dressing floors and the like, and the invention primarily has for its object to provide a scraper of an improved construction which can be easily and cheaply manufactured and which will readily and effectively serve its intended purposes. In my invention means are provided for holding and clamping the scraping blade, which means can be easily and quickly adjusted to permit insertion or withdrawal of the blade, as the case may be.

Another object of my invention is to provide a scraper having a yielding pad against which the blade rests to absorb or prevent vibration when the implement is in use.

The invention also embodies certain novel construction, combination and arrangement of parts, all of which will be first described in detail and then be specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which,—

Figure 1, is a perspective view of my invention. Fig. 2, is a central, vertical section thereof. Fig. 3, is a horizontal section on the line 3—3 of Fig. 2. Fig. 4, is a perspective view of the metallic gage and blade holding clamp member. Fig. 5, is a similar view of the stock and handle member. Fig. 6, is a perspective view of the bridge members.

Referring now to the accompanying drawings in which like letters and numerals of reference indicate like parts in all of the figures, 1 designates the stock with which the handles 1^a merge, and the stock 1 has its under face plane, while its front face 1^c is in a plane held at an obtuse angle to the plane containing the horizontal surfaces 1^b of the stock.

Cemented or otherwise held in contact with the front face 1^c of the stock 1, is a pad 2, of leather or other similar yielding material of substantially even thickness throughout, and against which the scraping blade 3 is held.

The blade 3 may be of the ordinary type and have the usual cutting edge 3^a, as shown.

On the rear the stock 1 is formed with an elongated countersunk portion 1^d to receive the bow shaped bridge member 4 and the set screw carrying bridge bar 5, the bar 5 having

a threaded aperture to receive the set screw 6 and having its ends cut away as at 5^b to form nut holding sockets.

The ends of the bars 4 and 5 have alining apertures 4^a and 5^a which register with the bolt holes 1^x in the stock 1, to permit passage of the clamping bolts 7 which coöperate with the nuts 8, as shown.

9 designates the combined gage and blade holding clamp member which has the usual body 9^a whose under face 9^b lies in the same plane with that containing the face 1^b of the stock 1. The body 9^a has an upwardly projecting rear face 9^c held at an acute angle to the face 9^b and it also has upwardly projecting arms 9^c having depressed blade receiving portions 9^d and bolt apertures 9^e together with a clearance space 9^f to permit passage for the shavings.

In practice, the parts are arranged as shown in Figs. 1, 2 and 3. To loosen the member 9 and release the blade, it is only necessary to turn the set screw to ease up on the tension exerted on the bolt, when the blade may be easily withdrawn for sharpening or otherwise. When it is desired to reinsert the blade it is only necessary to replace the same in the position shown in Fig. 1, within the recesses 9^d and tighten up on the set screw, thus exerting a tension on the bolts and drawing the member 9 against the blade, and tightly clamping the blade against the yieldable cushion or pad.

By constructing a scraper as shown and described, the same can be easily and cheaply manufactured at a minimum expense and the blade can be readily adjusted to its proper position as well as easily and quickly removed for sharpening, the provision of the yieldable pads serving to take up any vibrations which may occur during the operation of the implement and prevent chattering of the blade.

It will be noticed that the cut away ends of the set screw carrying bridge member 5 together with the countersunk portion of the stock 1 in which the bridge members are held, serve as a nut lock and prevent the nuts becoming loose, it being understood that the heads 7^a of the bolts have their faces held at a slight angle to the longitudinal axis of the bolts, thus preventing turning of the bolt when the set screw is tightened up.

From the foregoing description, taken in connection with the accompanying drawings, it is thought the complete construction, operation and numerous advantages of my

invention will be readily understood by those skilled in the art to which the invention appertains.

What I claim is,—

5 1. The combination with the stock, the blade holding clamp member, and means for mounting the blade holding clamp member on the stock, of means carried by the stock and coöperatively connected with the aforesaid
10 mounting means for causing the blade carrying clamp member to clamp the blade against the stock substantially as shown and described.

2. The combination with the stock, the
15 blade holding clamp member having blade receiving recesses and the blade therein, of securing means passed through the clamping member and the stock for holding the clamping member to the stock, and means for tightening up or loosening said securing means to
20 clamp or release the blade, substantially as shown and described.

3. The combination with the stock, the blade holding clamp member having blade
25 receiving recesses and the blade therein, of securing means passed through the clamping member and the stock for holding the clamping member to the stock, means for tightening up or loosening said securing means to
30 clamp or release the blade, said last named means comprising a pair of bridge members carried by the stock and coöperatively connected with the securing means, and means carried by one of said bridge members for
35 exerting a tension on said securing means to draw the blade holding clamp member tightly against the blade, substantially as shown and described.

4. The combination with the stock, the
40 blade holding clamp member having blade receiving recesses and the blade therein, of securing means passed through the clamping member and the stock for holding the clamping member to the stock, means for tightening up or loosening said securing means to
45 clamp or release the blade, said last named means comprising a pair of bridge members carried by the stock and coöperatively connected with the securing means, means carried by one of said bridge members for ex-
50 erting a tension on said securing means to draw the blade holding clamp member tightly

against the blade, and a yieldable pad interposed between the blade and the blade holding clamp member and the stock, substantially as shown and described. 55

5. The combination with the stock, the blade holding clamp member and the blade, and bolts for securing the blade holding member to the stock, of tension devices for said
60 bolts to coöperate with the blade holding clamp members, substantially as shown and described.

6. The combination with the stock, the blade holding clamp member and the blade, 65 and bolts for securing the blade holding member to the stock, of tension devices for said bolts to coöperate with the blade holding clamp members, said tension devices comprising a bridge member connected with said
70 bolts, and means coöperating with the bridge member for exerting a tension on said bolts.

7. The combination with the stock, the blade holding clamp member and the blade, 75 and bolts for securing the blade holding member to the stock, of tension devices for said bolts to coöperate with the blade holding clamp members, said tension devices comprising a bridge member connected with said bolts, means coöperating with the bridge
80 member for exerting a tension on said bolts, said last named means comprising a set screw passing through said bridge member, substantially as shown and described.

8. The combination with the stock, the 85 blade holding clamp member and the blade, and bolts for securing the blade holding member to the stock, of tension devices for said bolts to coöperate with the blade holding members, said tension devices comprising a
90 bridge member connected with said bolts, means coöperating with the bridge member for exerting a tension on said bolts, said last named means comprising a set screw passing through said bridge member, and a supple- 95 mental bridge member held within said stock and adapted to be coöperatively engaged by said set screw, substantially as shown and described.

WILLIAM ERDMANN.

Witnesses:

ERNST SAABER,
REINHOLD MATHWIG.