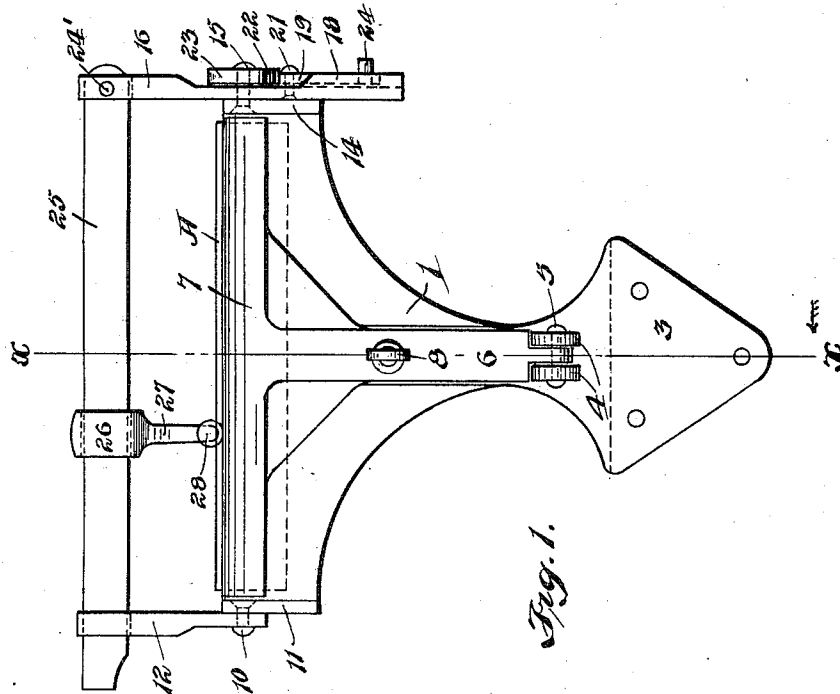
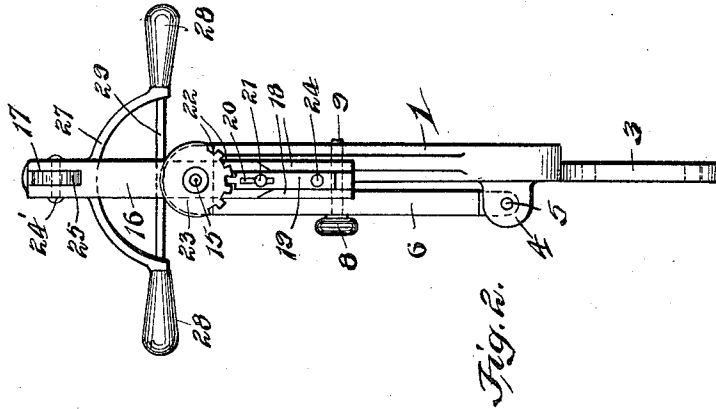


A. J. GURNEA.
BLADE BURNISHING MACHINE.
APPLICATION FILED JULY 25, 1908.

998,768.

Patented July 25, 1911.

2 SHEETS—SHEET 1.



WITNESSES

Harry E. Nelson
T. O. Thompson

INVENTOR :

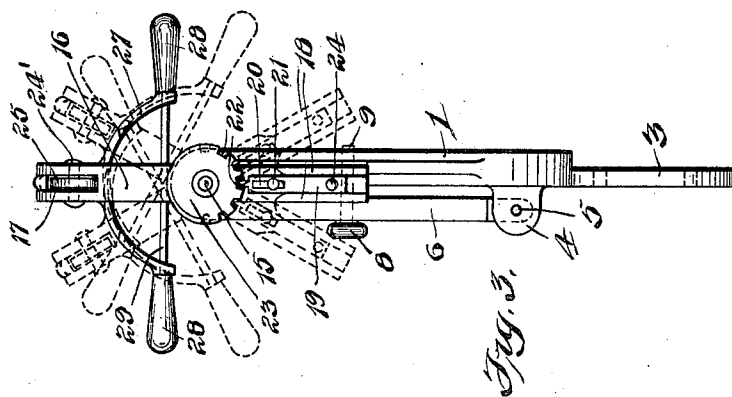
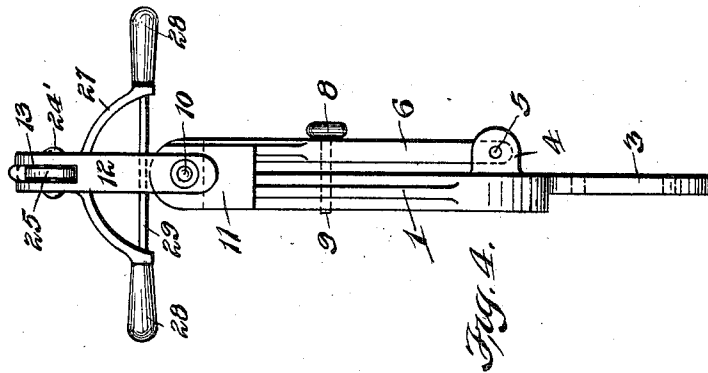
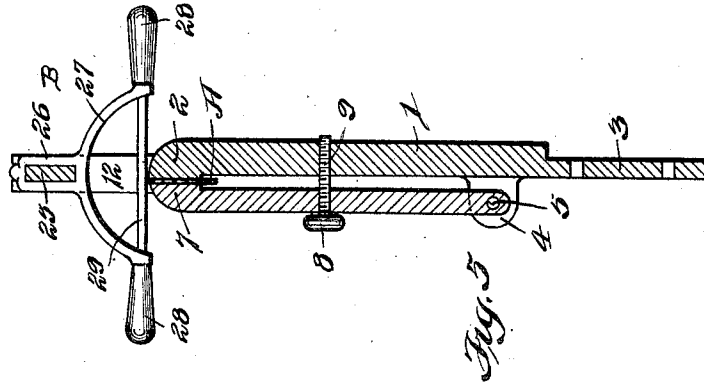
Andrew J. Gurnea.
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UNITED STATES PATENT OFFICE.

ANDREW J. GURNEA, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO MARTIN W. GURNEA, OF CHICAGO, ILLINOIS.

BLADE-BURNISHING MACHINE.

998,768.

Specification of Letters Patent.

Patented July 25, 1911.

Application filed July 25, 1908. Serial No. 445,429.

To all whom it may concern:

Be it known that I, ANDREW J. GURNEA, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Blade-Burnishing Machines, of which the following is a specification.

My invention relates to blade burnishing machines, and more particularly to a machine for burnishing floor scraping machine blades, and has for its object to provide a device of this character which will be simple and comparatively inexpensive in construction, durable and efficient.

A further object is to provide a device having a sliding and adjustable burnisher holder.

With these and other objects in view, as will hereinafter appear, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described, and finally pointed out in the claim hereto appended.

I am aware that various changes such as in the form, proportion, size and minor details of construction herein shown and described as an embodiment of my invention may be made without departing from the spirit or scope of the invention or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of the same.

Referring to the accompanying drawings forming a part of this specification wherein like characters of reference denote similar parts throughout the several views: Figure 1, is a side elevation of a blade burnisher constructed in accordance with my invention. Fig. 2, is an end view thereof. Fig. 3, is an end view showing the burnisher holder in different positions in dotted lines. Fig. 4, is an end view of the opposite end of the machine. Fig. 5, is a vertical sectional view taken on line $x-x$ of Fig. 1.

In carrying out the aim of my invention I employ a suitable vise member, 1, which is provided at its upper end with a jaw 2 and at its lower end with an ear 3, by means of which it may be secured to any suitable object, such as a bench or the like. This member 1 is further provided with a pair of ears 4.

Pivotally connected to the ears 4 by means

of a pin 5 at its lower end, is an arm 6, which has its upper end provided with a jaw 7. This arm 6 is provided with a thumb-screw 8, which is adapted to enter the threaded opening 9 in the member 1, so as to enable the jaws 2 and 7 to be brought closely together for holding a blade A therebetween, as clearly shown in Fig. 5.

Pivotally secured by means of a pin 10 to the end 11 of jaw 2, is an arm 12, which has its upper end slotted as at 13. Pivotally secured to the opposite end 14 of jaw 2 by means of the pin 15 is an arm 16, which also has its upper end slotted as at 17. This arm 16 it will be observed is pivoted near its center and has its lower end provided with a pair of flanges 18, adapted to hold in position the sliding arm 19. This sliding arm is provided with a slotted opening 20, through which passes the pin 21, which is adapted to limit the extreme downward movement of the sliding arm 19.

The upper extremity of the arm 19 is reduced and is adapted to engage one of the notches 22 at a time, of the disk 23, which disk is rigidly secured to the pin 15. The sliding arm 19 is provided with a handle 24 by means of which it may be easily and readily removed in or out of engagement with the disk 23.

Pivotally connected to the upper slotted end of the pivotally held arm 16 by means of the pin 24' is a supporting bar 25. When this bar 25 is in its lowermost position the free end thereof is adapted to be carried by the slotted end 13 of the pivotally held arm 12, as clearly shown in Fig. 1.

Adapted to be slidably carried by means of supporting bar 25, is a burnisher holder B, which comprises the slotted head 26 and the arms 27 to each of which is secured a handle 28. Suitably secured to the ends of the arm 27 is a burnisher 29, as clearly shown in Fig. 5.

The operation of the device is as follows: When it is desired to burnish the blade of a floor scraping machine, the supporting arm 25 is first raised to a vertical position as is manifest. The screw 8 is then loosed enough so as to allow the jaws 2 and 7 to open wide enough to permit the blade A to be inserted therebetween. After the blade has been positioned, the jaws are brought tightly in engagement with the blade to firmly hold the same in position. The supporting arm

25 is then lowered and the burnisher 29 allowed to engage the blade to be burnished. The operator pushes or pulls the burnisher across the blade and back again with the holder in the position as shown in full lines in Figs. 2 and 3. After this operation, the arms 12 and 16 are carried to one of the positions shown in dotted lines and the burnisher is then again drawn across the blade and back again. After this operation, the arms 12 and 16 are adjusted to the other position shown in dotted lines and after the burnisher has been drawn across the blade and back again the blade has been properly burnished and is ready to be taken out of the vise.

From the foregoing description it will be seen that I produce a machine which may be operated by inexperienced as well as ex-

perienced parties, and that the turning of the cutting edge of the blade is at all times under the control of the operator as he may regulate the amount of pressure placed upon the burnisher.

What I claim is:

In a device of the class described comprising a vise, an upright support pivotally secured at each end of said vise, a bar pivotally secured to the upper end of one of said upright supports and adapted to rest at the opposite end on the opposite support, means for holding said upright supports at various angles, and a burnisher slidably mounted on said pivotally held bar.

ANDREW J. GURNEA.

Witnesses:

RUPERT BIPPUS,
EUGENE J. WEBSTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."