

SCRAPER SHARPENER.

956,350.

Patented Apr. 26, 1910.



Witnesses

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SCRAPER-SHARPENER.

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To all whom it may concern:

Be it known that I, JACOB E. HILLSTROM, a citizen of the United States, residing in Michigan City, in the county of Laporte and State of Indiana, have invented certain new and useful Improvements in Scraper-Sharpeners, of which the following is a specification.

The object of my invention is to provide a simple and efficient machine for sharpening scrapers.

In carrying out my invention I provide a frame which is adapted to be secured to a carpenter's bench or other suitable support and to this frame I attach a horizontally arranged guide rod to which is pivotally connected and on which slides a tool holder comprising a body portion and an arm which overhangs the scraper clamping devices. The body portion of the tool holder is provided with a vertical series of holes for the rear end of the sharpening tool while the front end of the overhanging arm has a single opening for the tool by which means the angle of the tool relatively to the scraper may be adjusted.

The frame is formed with a downwardly projecting skeleton front portion provided with two parallel vertically disposed slots which receive set screws carried by a curved bar adapted to rest against the lower edge of the scraper while it is being adjusted and sharpened. By means of the set screws which work in the vertical slots of the frame, the bar may be adjusted vertically to hold the scraper at the desired elevation and the scraper, when properly adjusted, is held against the upper portion of the frame by a clamping bar.

After the scraper is adjusted and clamped the sharpening tool is mounted in its holder and then the holder and tool are reciprocated back and forth over the scraper until the edge thereof is turned or sharpened, the holder being guided by the guide rod before mentioned.

In the accompanying drawings, Figure 1 is a perspective view of a scraper sharpener embodying my improvements, looking mainly at the front portion thereof. Fig. 2 is a top plan view of the same. Fig. 3 shows a vertical section thereof on the line 3—3 of Fig. 2.

The frame may be made of a single casting and comprises a front part A formed with rearwardly projecting arms A' having

webs a formed with bolt holes a' to receive bolts B, which secure the frame to a bench C or other suitable support. A web A^2 is also provided between the opposite ends of the frame for a similar purpose. A guide rod E extends from one arm A' to the other and is firmly secured thereto. The tool holder comprises a body portion D having perforated lugs d through which the guide rod E extends and an arm D' which overhangs the front part of the frame and is formed with an opening d' to receive the sharpening tool X. The body portion of the frame is formed with a vertical series of holes d^2 to receive the outer or rear end of the tool. By these devices the tool may be placed at any desired angle relatively to the scraper and when so adjusted may be reciprocated back and forth over the scraper, being guided by the rod E. The front part of the frame is formed with two vertical slots a^2 to receive set screws F which carry a bar G on which rests the scraper Y. The bar is preferably curved slightly to correspond with the lower edge of the scraper which is usually curved. By these devices the scraper may be held at any desired elevation. H indicates a bar attached by set screws I to the frame A. By means of this bar the scraper may be securely clamped against the frame in the manner indicated in Figs. 1 and 3.

The tool holder may be swung back to the position shown in Fig. 3 and the scraper adjusted and clamped to hold it at the desired elevation and then the tool holder may be swung forward to the position shown in Fig. 1. Then the tool X may be inserted through the opening d' and adjusted in one of the holes d^2 so as to hold the tool at the desired elevation to produce the desired bevel or edge on the scraper. When the scraper and tool are thus adjusted, the tool and its holder are reciprocated back and forth over the scraper, being guided by the rod E and the desired bevel or edge is thus quickly and accurately formed.

I claim as my invention:

1. A scraper sharpener, comprising a frame, a guide rod carried thereby, means for clamping the scraper in the frame, and a tool holder pivotally connected with the guide rod and adapted to slide thereon which tool holder extends from the guide rod over the top of the scraper clamping means and is formed with supports for the sharpening

tool in front of and also behind the clamping devices.

2. A scraper sharpener comprising a frame, a guide rod carried thereby, a tool holder pivotally connected with the guide rod and adapted to slide thereon and which comprises a body portion formed with a vertical series of holes, and an overhanging arm formed with a hole to receive the tool sharpener, a sharpening tool extending through the hole in the arm and into one of the holes in the body portion of the holder, and means for clamping the scraper in the frame.

3. A scraper sharpener comprising a

frame, a guide rod carried thereby, a tool holder pivotally connected with the guide rod and adapted to slide thereon, means for clamping the scraper in the frame, a sharpening tool adjustably mounted in the tool holder, and a vertically adjustable bar carried by the frame adapted to engage the lower edge of the sharpener.

In testimony whereof I have hereunto subscribed my name.

JACOB E. HILLSTROM.

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