

No. 749,861.

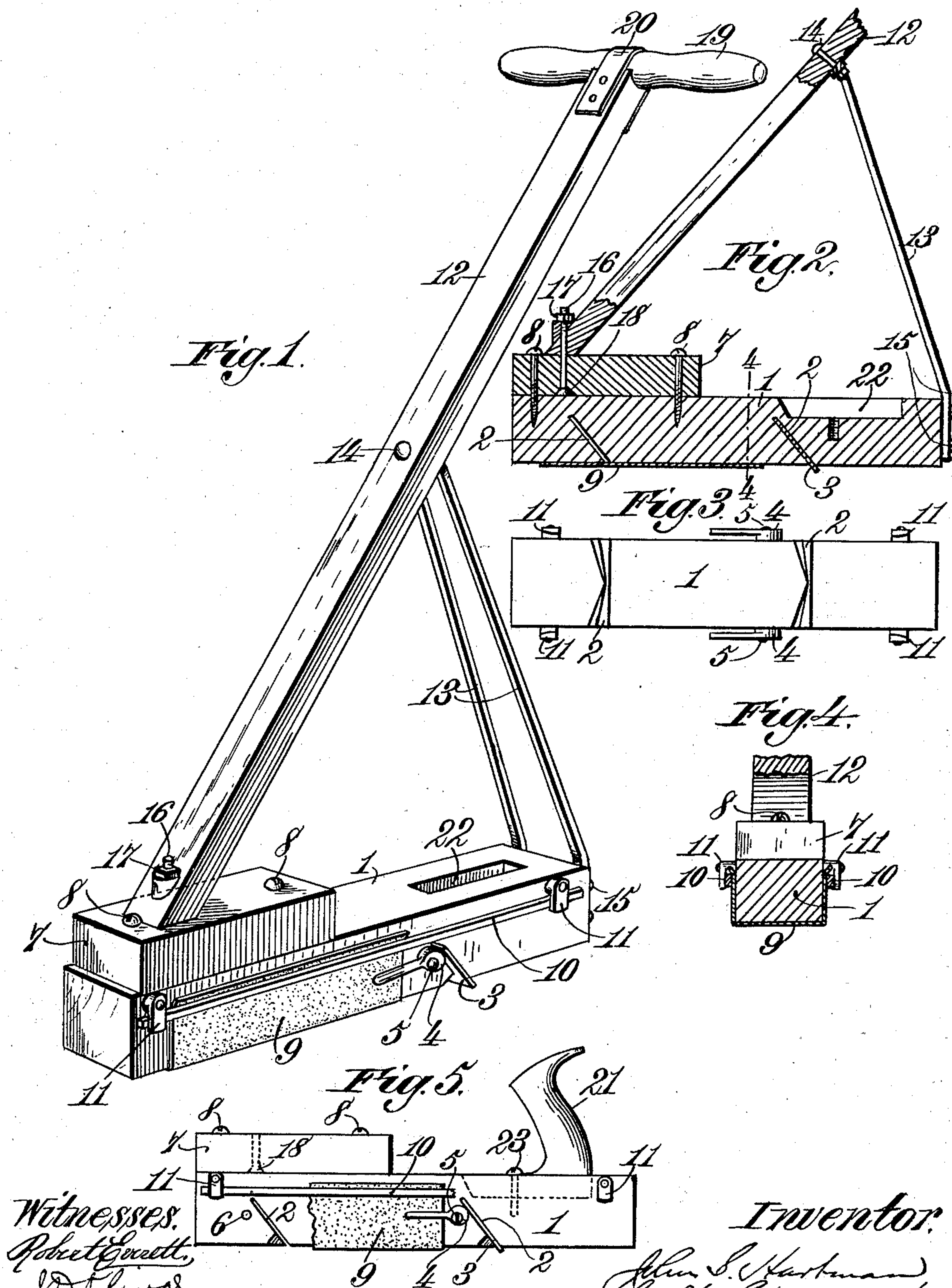
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J. S. HARTMAN.

TOOL FOR SCRAPING AND FINISHING FLOORS.

APPLICATION FILED SEPT. 19, 1903.

NO MODEL.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## TOOL FOR SCRAPING AND FINISHING FLOORS.

SPECIFICATION forming part of Letters Patent No. 749,861, dated January 19, 1904.

Application filed September 19, 1903. Serial No. 173,841. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN S. HARTMAN, a citizen of the United States, residing at Manchester, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Tools for Scraping and Finishing Floors; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to a tool for scraping and finishing hard-wood floors; and it has for its object to provide such a tool which will be simple in construction, comparatively cheap to make, and efficient in action, and by which the floor can be scraped and at the same time sandpapered or finished, either simultaneously or at different times.

To the accomplishment of the foregoing and such other objects as may hereinafter appear the invention consists in the construction and in the combination of parts hereinafter particularly described and then sought to be clearly defined by the claims, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is a perspective view of the tool. Fig. 2 is a longitudinal section through the same with a portion of the handle broken away. Fig. 3 is a bottom plan view. Fig. 4 is a transverse section on the line 4 4 of Fig. 2, and Fig. 5 is a side view showing a form of handle which may be used instead of the form illustrated in Fig. 1.

In the drawings the numeral 1 designates a block or base which preferably is made of wood, but may be made of other material. This base or block is formed in its under face with one or more inclined slots or recesses 2, designed to receive a bit or scraper 3, which may be inserted in one or another of the inclined slots, as desired, and which bit or scraper will be held in the slot by a locking-cam 4, which is pivotally secured to the side of the block by a removable screw or bolt 5,

so that said eccentric may be removed from near one slot and secured near the other slot when the scraper is shifted from one slot to the other, said screw or bolt entering a hole 6 made for it in the side of the block. For the purpose of weighting one end of the scraper-carrying block, so as to prevent the same from lifting during the operation of scraping, I provide a cast-metal block or counterbalancing-weight 7, which is secured to the scraper-carrying block by means of screw-bolts 8. For the purpose of securing sandpaper to the block I provide means for detachably securing the strip of sandpaper 9, which is passed beneath the block 1 and up along opposite sides thereof to the rear of the bit or scraper 3, as illustrated in Figs. 1 and 5 of the drawings. The preferred means for this purpose consists of detachable strips 10, of wood or metal, one for each side of the block 1, which strips will bear against the sandpaper and press the same against the opposite sides of the block. Said strips will be held to the sides of the block 1 by means of buttons 11, which will be pivoted to the sides of the block 1 and which will press against the outside of the strips 10, so as to clamp the same to the sides of the block 1, and thus bind or securely hold the sandpaper 9 to the block. It will be observed that these strips 10 lie above the bit or scraper-blade 3 and beneath the hubs of the buttons 11, and thus the strips 10 will be securely held in place. If desired, the inner faces of the buttons 11 may be cam-shaped, so as to more tightly clamp and bind the strips to the sides of the block 1.

For the purpose of enabling the scraper 2 being manipulated by the operator in a standing position I provide a handle consisting of the inclined bar 12 and the brace-rods 13, the latter being preferably made of metal and secured to the bar 12 by a bolt 14 and at their lower ends secured to the end of the block 1 by screws 15, while the lower end of the bar 12 will be secured to the counterbalancing-weight 7 by a bolt 16 and nut 17, the head of the bolt being set in a countersunk opening 18, formed in the counterbalancing-weight 7, and the upper end of the bar 12 will be pro-



vided with a cross-bar 19 to be grasped by the hands of the operator. For the purpose of bracing the connection of the cross-bar 19 to the inclined bar 12 I may provide a clip 20, which will pass around the bar 19 and be bolted or otherwise secured at its ends to the bar 12. This manner of forming and applying the handle affords a very strong handle and enables the operator to stand while at work in scraping the floor. In some positions, however, it is desirable to have a handle so applied that the operator may be in a stooping position. When that is the case, the handle, composed of the bar 12 and brace 13, is detached, and a handle 21, such as illustrated in Fig. 5 of the drawings, is inserted in a slot 22, made for the purpose in the top of the scraper-carrying block 1, said handle being secured by means of a screw-bolt 23.

Under the construction described if it be desired to merely scrape the floor and not to sandpaper the same the sandpaper can be released by loosening the buttons 11, so as to unfasten the strips 10, and thus the scraper can be used without the sandpaper. If the work be such that the bit or scraper-blade should be near one end of the block, the bit or blade can be removed from one slot and placed in the slot nearest the end of the block and held therein by shifting the locking-cam 4, and if it be desired to sandpaper the floor either without scraping the floor or subsequently to scraping the scraper bit or blade may be omitted and only the sandpaper attached to the block 1.

As previously mentioned, it is preferred to make the block 1 of wood on account of the cost and of the lightness thus attained, and when so made the counterbalancing metal weight 7, applied to the block 1, gives sufficient weight to prevent lifting or tilting of the block 1 at the end and renders the tool very efficient in operation.

While I have illustrated and described with particularity the preferred details of construction and arrangement of the several parts, yet it is obvious that changes can be made therein

and the essential features of my invention be retained, and while I have also described the preferred material of which the different parts may be made, yet it is obvious that other materials may be employed.

Having described my invention and set forth its merits, what I claim is—

1. A tool for finishing and scraping floors comprising the base-block provided with an inclined scraper-blade on its under face and a counterbalancing-weight at one end of the block and back of the rear portion of the inclined scraper, substantially as described.

2. A tool for scraping and finishing floors comprising the base-block provided with a scraper-blade on its under face, and means for securing sandpaper to the block to the rear of the scraper-blade, substantially as described.

3. A tool for scraping and finishing floors comprising a base-block provided with a scraper-blade on its under face, strips for binding sandpaper to the block, and means for holding said strips in place, said strips lying above the top of the scraper-blade, substantially as described.

4. The tool for scraping and finishing floors consisting of the wooden base-block provided with a scraper-blade on its under face, a counterbalancing metal weight applied at one end of the base-block, the handle formed of the inclined bar connected at one end to the counterbalancing-weight and a rigid brace connecting said bar between its ends to one end of the base-block, and means for securing sandpaper to the base-block, substantially as described.

5. The combination with the base-block having a handle, and a counterbalancing-weight applied to the end of the block opposite to the end where the handle is grasped in operating the block, of means for securing sandpaper to the base-block, substantially as described.

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

JOHN S. HARTMAN.

Witnesses:

CHARLES A. MAY,  
JAS. H. SCHALL.