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PORTABLE SURFACING TOOL FOR MEAT BLOCKS OR SIMILAR ARTICLES.

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1,326,829. Patented Dec. 30, 1919.

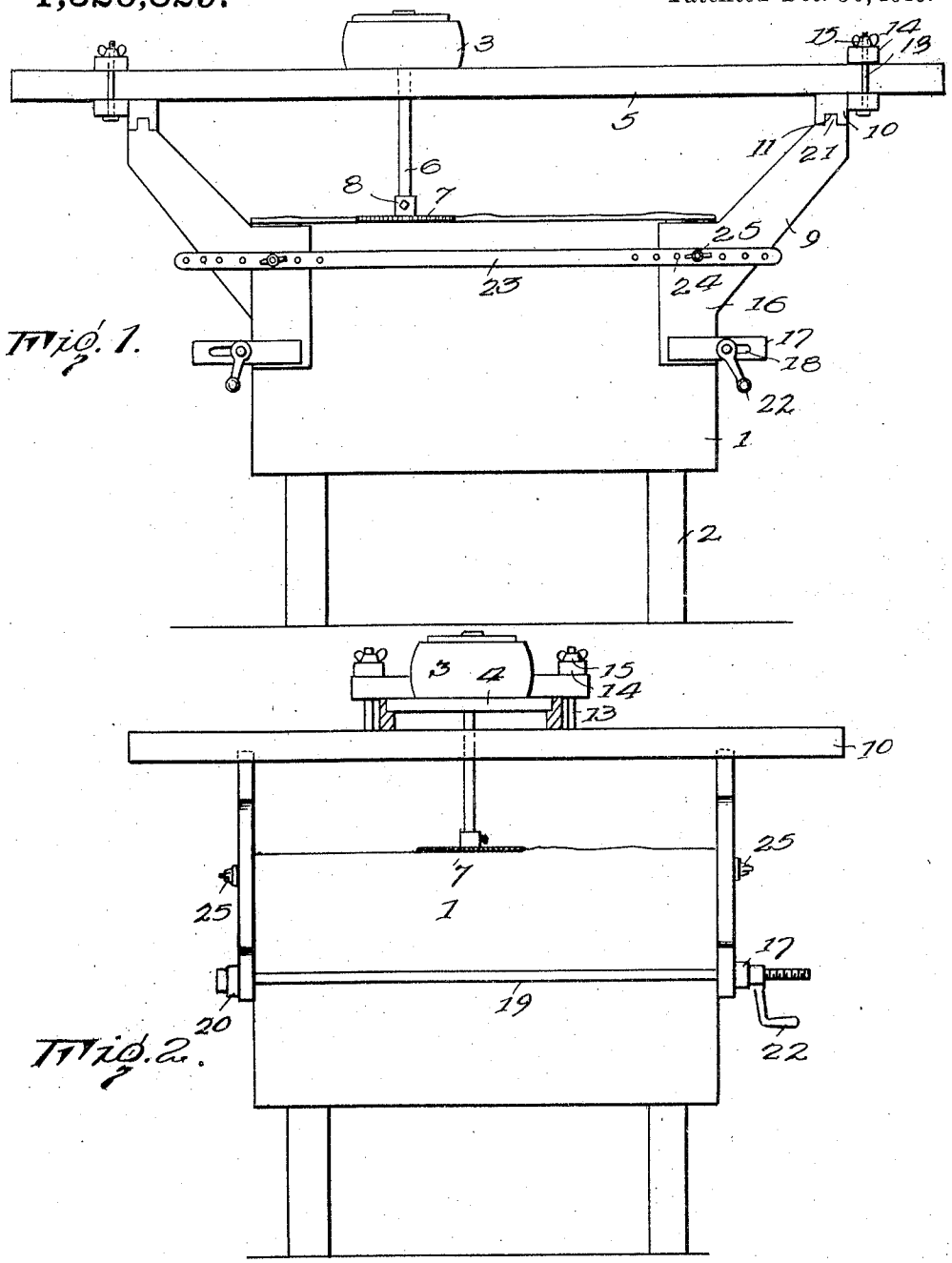


Fig. 1.

Fig. 2.

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PORTABLE SURFACING-TOOL FOR MEAT-BLOCKS OR SIMILAR ARTICLES.

1,326,829. Specification of Letters Patent. Patented Dec. 30, 1919.

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To all whom it may concern:

Be it known that I, CHARLES F. ARKLAND, a citizen of the United States, and resident of La Grande, in the county of Union and State of Oregon, have invented certain new and useful Improvements in Portable Surfacing-Tools for Meat-Blocks or Similar Articles, of which the following is a specification.

This invention relates to new and useful improvements in portable surfacing tools for butchers' blocks or similar articles, and the primary object of the invention is to provide a tool of this character which is adapted to be clamped to the ordinary type of butchers' block or similar article and is operated in such a way, as to rapidly and uniformly surface such blocks so as to leave their tops smooth and level.

Another object of the invention is to provide a portable surfacing tool of this character which is so constructed that it is applicable to butchers' blocks or similar articles of various sizes.

A further object of the invention is to provide a device of this character which is easily and simply constructed, inexpensive to manufacture, and one which will be very efficient in operation.

With these and numerous other objects in view my invention consists of the novel features of construction, combination and arrangement of parts which will be herein referred to and more particularly pointed out in the specification and claim.

In the accompanying drawing:

Figure 1 is an end elevational view of my surfacing tool applied to the conventional type of butchers' block, and

Fig. 2 is a side elevational view of the same.

In describing my invention I shall refer to the drawings in which similar reference characters designate like and corresponding parts throughout the several views. The numeral 1 designates a butcher's block of the conventional type which is supported by legs 2, and which has its upper surface flat. The upper surface of these types of butchers' blocks owing to the fact that it is subjected to considerable hewing and hacking, becomes rough and uneven, and is filled with pockets. The object of this tool is to resurface the top of the block so as to leave the same smooth and level. In Fig. 2 of the drawing I have shown the tool in operation, which shows a portion of the top of the block rough, while the other portion over which the tool is traveling is smooth and level, having just been resurfaced.

The numeral 3 designates a motor that is provided with a base plate 4, which is slidably mounted in a track comprising a pair of rails 5, that is transversely mounted above the top of the block. The motor is provided with a depending rod or axle 6 on the lower end of which is mounted a horizontally disposed cutter head 7, that is secured to said rod by means of a collar and set screw 8 disposed on the lower end thereof. The cutter head 7 is disposed in a single plane with the top of the block so as to even the surface thereof as is obvious.

The rails of the upper guide frame, that support the motor 3 are held in position above the top of the block by means of a plurality of supporting arms 9, that extend upwardly and outwardly from the sides of the block 1 at the ends thereof, and which support on their upper ends longitudinally extending side bars 10. The lower surfaces of these bars are notched as shown at 11, and coacting with said notches are ribs on the upper ends of the arms. The opposite ends of the rails 5 rest on the bars 10, and are slidable longitudinally thereof, so as to hold the guide track in various longitudinally adjusted positions with respect to the top of the block. The guide rails 5 are held against transverse movement by means of bolts 13 that project through said rails adjacent the bars 10, and which have blocks 14 on the opposite ends thereof, said blocks being held in position by means of winged nuts 15 that pivotally engage the projecting ends of the bolts.

The lower ends of the arms 9 that engage the opposite ends of the block 1 adjacent the edges thereof are provided with enlarged portions 16, which have projecting outwardly therefrom metal straps 17 having elongated slots 18 in their outer ends. The slots 18 on the outer ends of the straps that are secured to the arms at the opposite ends of the block, are disposed in alinement, and clamping rods 19 that extend the full length of the block are adapted to project therethrough. One end of each rod 19 has a head 20 formed thereon, while the opposite end thereof is screw-threaded, and a clamping collar provided with a handle 22 is operatively engaged therewith, to clamp the arms

against the ends of the block as is obvious. The longitudinally extending slots in the ends of the straps allow the device to be adjusted to various sizes of blocks.

To prevent the arms 9 from being forced outwardly away from the block, I have provided a pair of metal connecting strips 23, that are disposed on opposite sides of the block, and which have their opposite ends provided with a plurality of openings 24 therein, through one of which is positioned some type of fastening means 25 to securely hold the strips in position. These strips 23 form additional connecting means between the arms at the ends of the block, and will securely hold the same together, to prevent outward movement thereof.

From the herein-described construction it is obvious that owing to the fact that the supporting frame 5 is positioned on the bars 10 held by the supporting arms that are detachably connected with the block, this frame 5 is longitudinally adjustable on said bars, so as to move the cutter tool longitudinally with respect to the top of the block. The motor that supports the tool is slidably mounted on the track or frame, so that it may move transversely across the top of the block when in operation. These two adjustments permit the entire upper surface of the block to be shaved so as to leave it smooth and level. The various parts of this portable resurfacing machine are quickly detachable, so that the same may be easily knocked down when transported. The connections of the supporting frame with the block are adjustable, so that the machine is applicable to various sizes of blocks. Although the device is primarily intended for use on resurfacing butchers' blocks, the same may be applied for various other purposes embodying these general principles.

From the foregoing description of the construction and operation of my new and improved resurfacing tool for butchers' blocks and like articles, the manner of applying the same to use and the operation thereof will be readily understood, and it will be seen that I have provided a simple and efficient means for carrying out the objects of this invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is:

A portable device of the character described, comprising pairs of upwardly diverging supporting arms having laterally extending enlarged flat portions, slotted straps connected to said portions, connecting rods between the pairs of arms, winged bolts adjustably engaged in said rods and also engaged in the enlarged flat portions, clamps engaged in the slotted straps to hold the enlarged portions against the block, bars carried by the arms, track rails on the bars and slidable thereon, means for holding the rails against movement at right angles to the slidable course thereof, a base plate slidable on the rails, and block surfacing mechanism supported on the base plate.

In testimony whereof, I affix my signature hereto.

CHARLES F. ARKLAND.