March 22, 1927. 1,622,182

N. COWAN

MEAT BLOCK CLEANER

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Fig. 1.

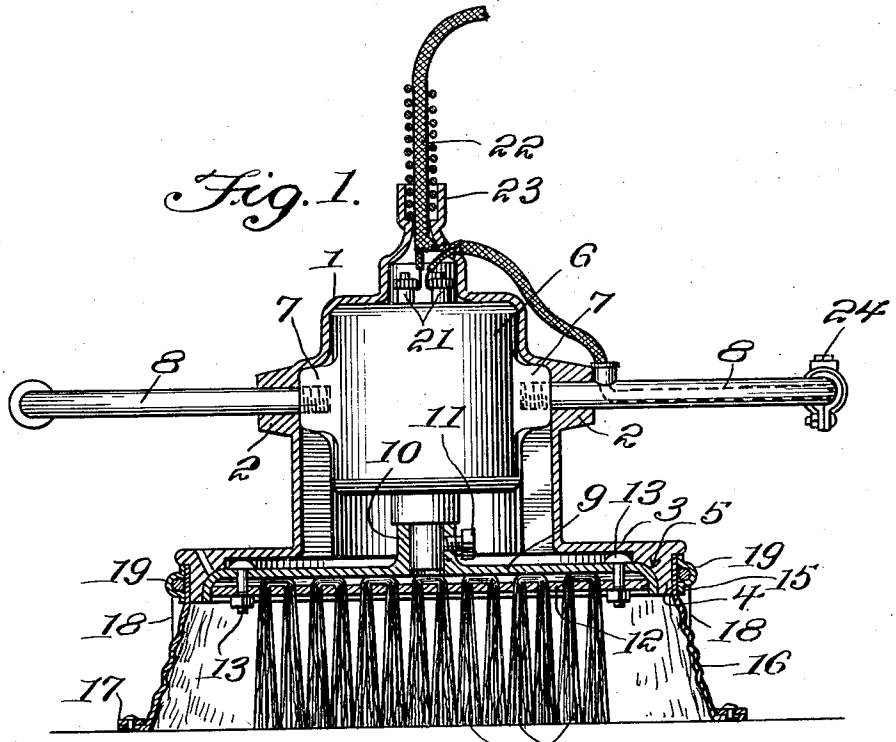
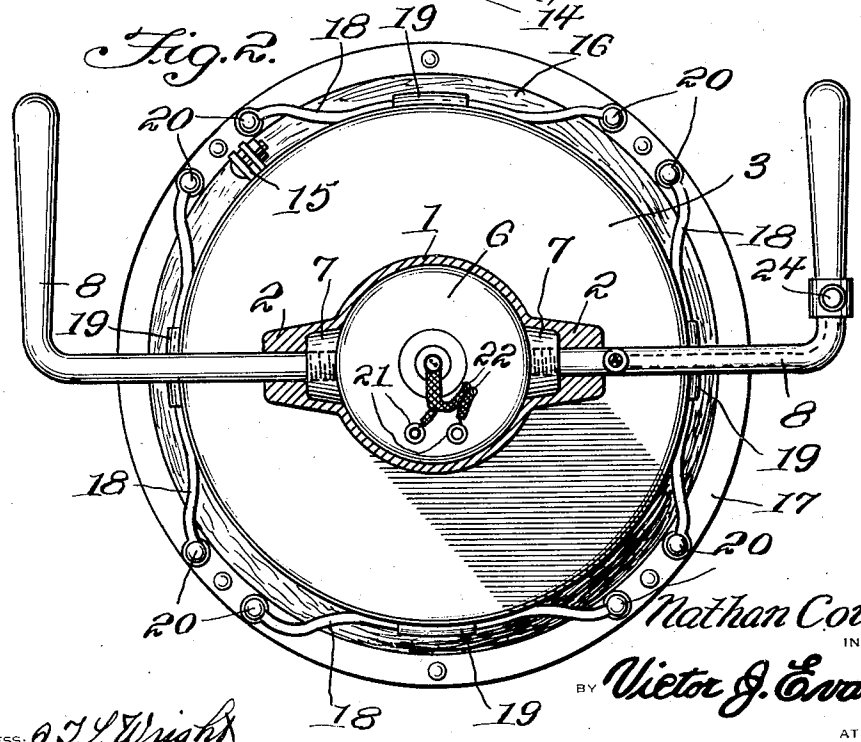



Fig. 2.




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Fig. 3.

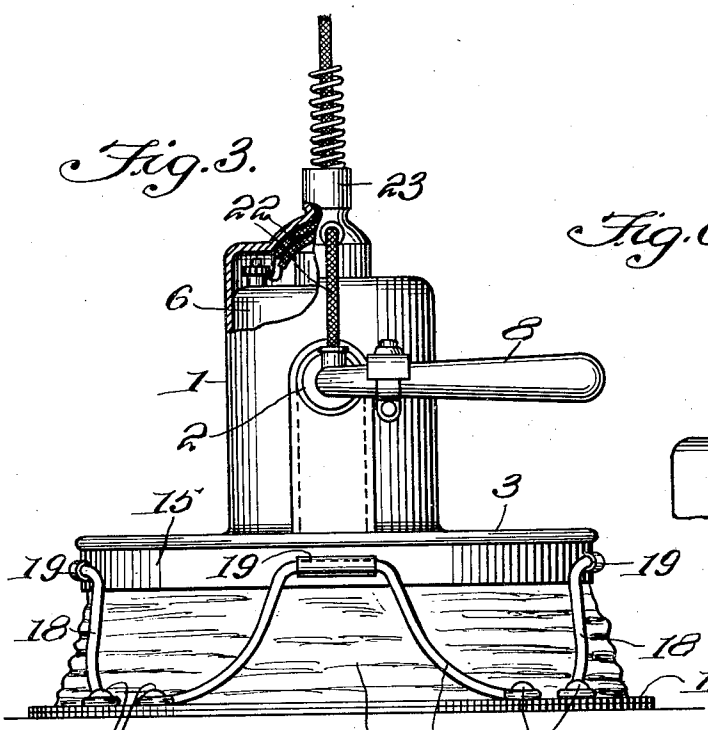



Fig. 4.

Fig. 6.

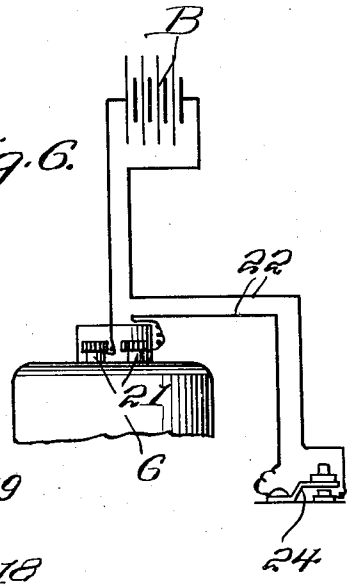
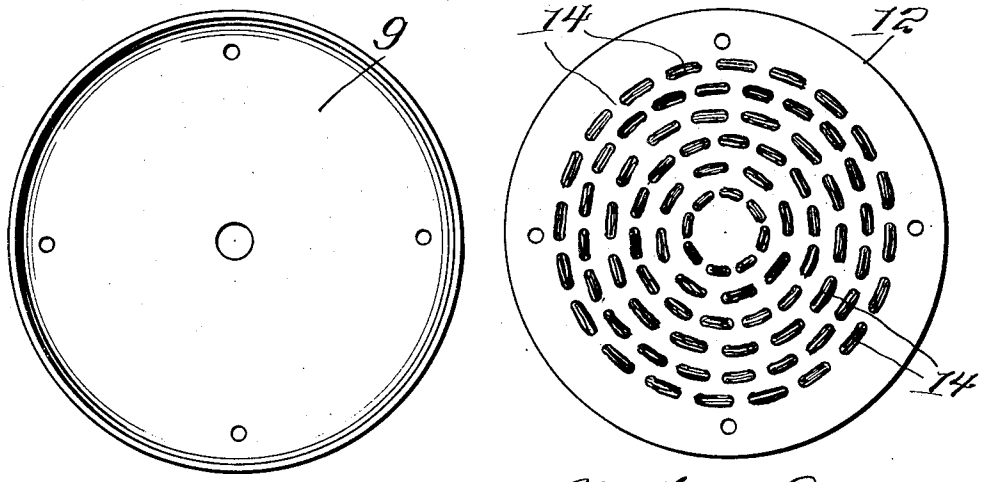



Fig. 5.




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Patented Mar. 22, 1927. 1,622,182

# UNITED STATES PATENT OFFICE.

NATHAN COWAN, OF CHICAGO, ILLINOIS.

## MEAT-BLOCK CLEANER.

Application filed August 18, 1926. Serial No. 130,065.

This invention relates to a device for cleaning meat blocks and the like, the general object of the invention being to provide a motor driven wire brush arranged in a casing which is provided with handles so that the bristles of the brush can be held in contact with the block.

Another object of the invention is to provide a flexible apron for enclosing the bristle part of the brush to confine particles thrown off by the bristles.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a vertical sectional view through the device.

Figure 2 is a top plan view, with parts in section.

Figure 3 is an elevation, with parts broken away.

Figure 4 is a view of the brush holder.

Figure 5 is a top plan view of the brush.

Figure 6 is a diagrammatic view of the circuit.

In these views, 1 indicates a casing which is formed with the oppositely arranged extensions 2 at its sides and with the base 3 which has a depending flange 4 which is formed with an annular internal groove 5. A motor 6 is located in the upper part of the casing and is provided with the side extensions 7 which fit in the extensions 2 of the casing. A pair of handles 8 each has its inner end passing through the extensions 2 and threaded in holes in the extensions 7 so that these handles fasten the motor in the casing. A saucer-shaped brush holder 9 engages the groove 5 in the flange 4 and the boss 10 of the said holder is fastened to the motor shaft by the set screw 11. The brush head 12 is fastened in the brush holder by bolts 13 and the said head carries the bristles 14 which are preferably formed of wire. A split ring 15 encircles the flange 4 and clamps thereto an apron 16 of flexible material, such as rubberized cloth. A ring 17 is fastened to the lower edge of the apron and springs 18 of substantially U-shape have their bights attached to the ring 15 by the barrels 19 and their extremities fastened to the ring 17, as shown at 20. These springs tend to hold the apron stretched to its fullest extent, but when the device is placed on the block and a slight pressure applied to the handles, the ring 17 will approach the base so that the apron will be partially collapsed, as shown in Figure 1, and thus permit the bristles to engage the block.

The terminals 21 of the motor are connected to a source of supply by the conductors 22 which pass through a tubular extension 23 at the top of the casing, portions of one of the conductors passing into one of the handles 8, where they are connected with a switch 24 which is so arranged that it can be manipulated by the thumb or finger of the hand of the user which grasps the said handle.

From the foregoing, it will be seen that when a block is to be cleaned, it is simply necessary to attach the conductors 22 to a source of supply and then apply pressure on the device through means of the handles 8. This will partially collapse the apron 16 and permit the bristles to contact with the block. The switch 24 is closed to supply current to the motor, which will rotate the brush, as will be understood.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A cleaning device of the class described comprising a casing having a base portion, a motor held in the upper part of the casing, a brush holder rotatably mounted in the base portion, means for connecting the holder with the shaft of the motor, a brush connected with the holder, a flexible apron having its upper portion connected with the base portion and spring means connected with the base portion and the bottom of the apron for holding the apron extended.

2. A cleaning device of the class described comprising a casing having a base portion, a motor in the upper part of the casing, a brush holder rotatably mounted in the base portion, means for connecting the holder

with the shaft of the motor, a brush connected with the holder, a flexible apron having its upper portion connected with the base portion, spring means for holding the apron extended, handles passing through the casing and fastened to the motor for securing the motor in the casing and means for supplying current to the motor.

3. A cleaning device of the class described comprising a casing having an enlarged base portion which is formed with a depending flange, an apron fastened to the flange and formed of flexible material, a ring on the lower end of the apron, substantially U-shaped springs having their bights fastened to the flange and their extremities fastened to the ring, a motor in the upper part of the casing, handles passing through the casing and fastened to portions of the motor, a brush holder rotatably mounted within the space formed by the flange, means for connecting the holder to the motor shaft and a brush fastened to the holder and having its bristles extending into the space formed by the apron.

In testimony whereof I affix my signature.

NATHAN COWAN.