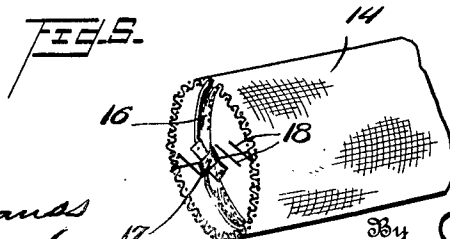
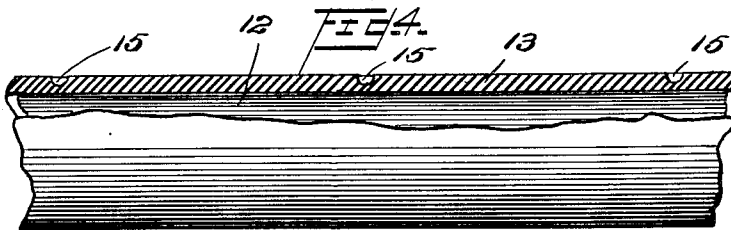
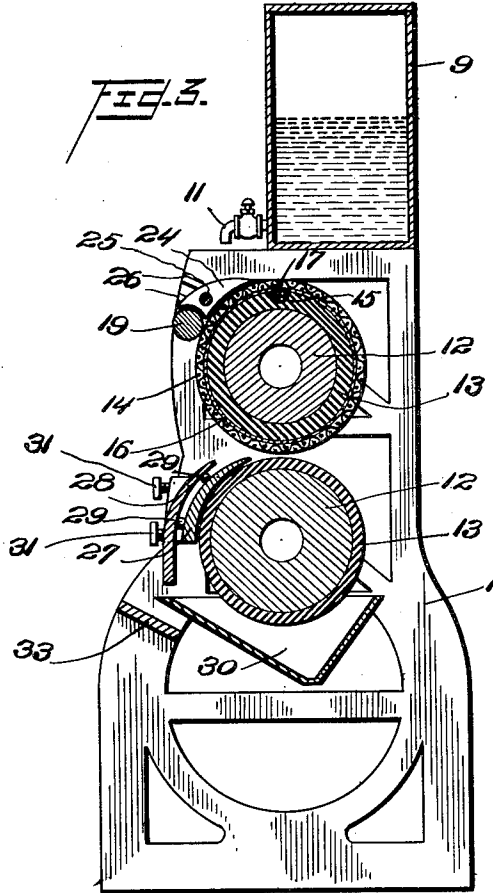
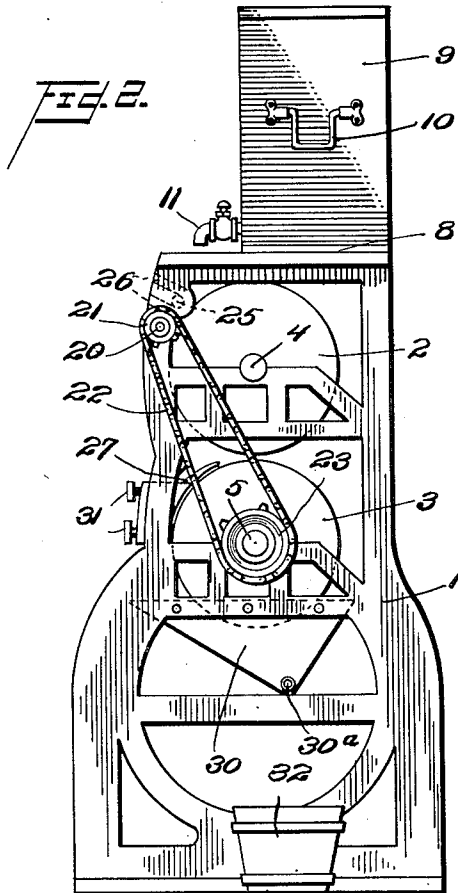


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 APPARATUS FOR TREATING SKINS.
 APPLICATION FILED JULY 31, 1911.

1,017,852.

Patented Feb. 20, 1912.

2 SHEETS—SHEET 2.



Witnesses

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APPARATUS FOR TREATING SKINS.

1,017,852.

Specification of Letters Patent.

Patented Feb. 20, 1912.

Application filed July 31, 1911. Serial No. 641,421.

To all whom it may concern:

Be it known that I, DANIEL CHESTNUT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Treating Skins, of which the following is a specification.

My invention relates to improvements in apparatus for treating skins, the object of the invention being to provide improved means for applying seasoning to one face of the skin as it is passed between rolls, and supplying said seasoning uniformly yet without waste.

A further object is to provide an improved construction of carpet covered rolls, which act as a means for conveying and distributing the seasoning upon the skin.

A further object is to provide improved adjustable means for regulating the distribution of the seasoning onto the roll, and improved means for catching the seasoning from the upper roll, preventing it from wetting the lower roll, whereby the seasoning might be applied to both sides of the skin, which is not desired.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings: Figure 1, is a view in front elevation illustrating my improvements. Fig. 2, is an end view. Fig. 3, is a view in vertical section transversely of the rolls. Fig. 4, is a fragmentary view partly in elevation and partly in section of the upper roll casing 13, and Fig. 5, is a fragmentary perspective view of the carpet covering for the upper roll casing.

1, represents a metal frame supporting an upper roll 2, and a lower roll 3. Upper roll 2 is provided with trunnions 4 at its respective ends, which project through the frame, and the lower roll 3 is provided with trunnions 5 which project through the frame. These trunnions 4 and 5, at one end, are connected by gears 6, and on the trunnion 4, at this same end, fast and loose pulleys 7 are provided, whereby power is transmitted to the apparatus to turn the rolls.

On a platform 8, extending across the top of frame 1, a tank 9 is supported, and is preferably provided with handles 10 at its

ends to facilitate its movement. Along one face of this tank 9, cocks 11 are provided, and from this series of cocks, the seasoning in the tank is allowed to drop down upon the upper roll 2. Both rolls 2 and 3 comprise a cylindrical body 12 having rubber casings 13 thereon.

Around the casing 13 of the upper roll 2, a covering 14 of carpet or other suitable material is positioned. In order to prevent any turning of the carpet on the roll, casing 13 is provided at intervals with pockets 15, and the inner face of the carpet 14 has secured thereto tapes 16.

In assembling the carpet on the rolls, the ends of these tapes are tied together forming knots as shown at 17, and these knots are positioned in the pockets 15. The edges of the carpet are then secured by a line of stitching 18, so as to snugly fit the upper roll. When the carpet is thus secured upon the roll, the knots 17 in the pocket 15 will prevent any independent movement of the carpet either longitudinally or transversely of the roll. The cocks 11 discharge directly on this carpet covering 14, and the latter becomes saturated with the seasoning and applies the seasoning to the skin, passing between the rolls.

To regulate the amount of seasoning which passes to the skin, I provide a relatively small roll 19, and the trunnions 20 of this roll 19 are mounted in frame 1. A sprocket wheel 21 on one of the trunnions 20, is connected by a sprocket chain 22 with a sprocket wheel 23 on one of the trunnions 5, so that this roll 19 is positively driven, and it tends to hold back any excess of seasoning.

To prevent waste, only certain of said cocks 11 are opened as is necessary in accordance with the width of the skin being treated.

To confine the seasoning on the carpet covering within certain limits, I provide adjustable partitions 24 which are preferably of glass, and are mounted to slide on rod 25 which is removably supported in inclined guides 26 on frame 1. The shape of these partitions 24 is seen most clearly in Fig. 3. They conform to the curvature of the upper roll 2, and also to the roll 19, and they reduce friction to a minimum, yet confine the seasoning between them, it being understood of course, that only such cocks as lie between the partitions are open.

As it is important that the seasoning does not wet the lower roll, which would impart it to the under face of the skin, to prevent this, I provide curved deflecting plates 27 and 28 respectively. The inner deflecting plate lies close to the lower roll, and extends up between the rolls, and is adapted to receive thereon the seasoning which is dropped from the upper roll, or which is squeezed off of the skin as the latter passes between the rolls. The outer curved plate is spaced from the inner plate by means of rivets 29, and while it extends below the inner plate, it terminates short of the upper edge of the inner plate, so that the seasoning is free to drop onto the inner plate, and then flow down between the plates into a trough 30 provided for its reception. These plates 27 and 28 are secured to the frame 1 by means of screws 31, and they may be variously connected and assembled for convenience in construction, as well as to facilitate the cleaning of the same.

The trough 30 above referred to preferably inclines from end to end, and is provided at its outlet end with a pipe 30^a adapted to direct the seasoning into a receptacle 32. A transverse bar 33 is secured in the frame, and acts as a support for the skins before they are passed between the rolls.

The outer plate 28 above referred to not only serves to confine the seasoning between the same and the inner curved plate, but it also acts as a guide to direct the skin properly between the rolls.

In operation, the number of skins are preferably placed across the bar 33, and one operator at one side of the machine grasps these skins and feeds them up over plate 28 between the rolls where they are thoroughly treated with the seasoning, the second operator taking the skins from the other side of the rolls, and passing them along for further treatments. As the carpet covering on the upper roll is held by means of the knots 17, pockets 15 cannot slip on the roll, and will convey a uniform amount of the seasoning to each skin, the cocks 11 being opened the desired distance to bring about the best results, and the roll 19 prevents an excess of liquid flowing down from the upper roll. The paper roll 2 is provided near its ends with annular grooves 34, which prevent the seasoning from passing longitudinally of the rolls beyond said grooves.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

Having thus described my invention, what

I claim as new and desire to secure by Letters Patent is:

1. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in the frame, one of said rolls having a longitudinal series of pockets therein, a covering on said roll comprising a strip of woven material, tapes secured to the inner face of said covering and knotted together, said knots located in said pockets, and means for supplying seasoning to said covering roll, substantially as described.

2. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in the frame, one of said rolls having a longitudinal series of pockets therein, a covering on said roll comprising a strip of woven material, tapes secured to the inner face of said covering and knotted together, said knots located in said pockets, a lacing binding the edges of said covering, and means for supplying seasoning to said covering roll, substantially as described.

3. In an apparatus of the character described, the combination with a frame, of rolls mounted in said frame, means for transmitting rotary motion to said rolls, a covering of woven material on one of said rolls, means for supplying liquid to the covering on said last-mentioned roll, a relatively small roll engaging the surface of said covered roll, means for positively driving said last-mentioned roll, a rod extending across the frame, and adjustable partition plates on said rod conforming in shape to the covered roll and to the last-mentioned roll and operating to confine the liquid on said covered roll, substantially as described.

4. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in the frame, one of said rolls having a longitudinal series of pockets therein, a covering on said roll comprising a strip of woven material, tapes secured to the inner face of said covering and knotted together, said knots located in said pockets, means for supplying seasoning to said covering roll, a relatively small roll engaging the surface of said covered roll, means for positively driving said last-mentioned roll, a rod extending across the frame, and adjustable partition plates on said rod conforming in shape to the covered roll and to the last-mentioned roll, and operating to confine the liquid on said covered roll, substantially as described.

5. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in the frame, one of said rolls having a longitudinal series of pockets therein, a covering on said roll comprising a strip of woven material, tapes secured to the inner face of said covering

and knotted together, said knots located in said pockets, a lacing binding the edges of said covering, means for supplying seasoning to said covering roll, a relatively small roll engaging the surface of said covered roll, means for positively driving said last-mentioned roll, a rod extending across the frame, and adjustable partition plates on said rod conforming in shape to the covered roll, and to the last-mentioned roll, and operating to confine the liquid on said covered roll, substantially as described.

6. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in said frame, means for transmitting a positive driving motion to both of said rolls, a carpet covering on the upper of said rolls, a tank on said frame, cocks connected to said tank, and directing liquid from the tank onto said carpet covered roll, a curved deflector plate located adjacent the lower roll, extending up between the rolls and adapted to catch the liquid from the upper roll and direct the same downwardly, and a trough into which said plate directs the liquid, substantially as described.

7. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in said frame, means for transmitting a positive driving motion to both of said rolls, a carpet covering on the upper of said rolls, a tank on said frame, cocks connected to said tank, and directing liquid from the tank onto said carpet covered roll, a curved deflector plate located adjacent the lower roll, extending up between the rolls and adapted to catch the liquid from the upper roll and direct the same downwardly, a second curved plate positioned transversely parallel with the first

named curved plate, said last-mentioned plate operating as a guide to direct skins between the rolls, and means for securing said plates to the frame, substantially as described.

8. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in the frame, gears connecting said rolls at one end, means for driving one of said rolls, both of said rolls comprising cylindrical bodies having casings of rubber thereon, a carpet covering on the upper of said rolls, means for supplying seasoning to said carpet covered rolls, and devices movable longitudinally of said covered roll, and adapted to confine the liquid of said roll between them, substantially as described.

9. In an apparatus of the character described, the combination with a frame, of upper and lower rolls mounted in the frame, gears connecting said rolls at one end, means for driving one of said rolls, both of said rolls comprising cylindrical bodies having casings of rubber thereon, a carpet covering on the upper of said rolls, means for preventing independent movement of said carpet covering on said upper roll, means for supplying seasoning to said carpet covered rolls, and devices movable longitudinally of said covered roll, and adapted to confine the liquid of said roll between them, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL CHESTNUT.

Witnesses:

R. H. KRENKEL,
CHARLES E. POTTS.