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1,706,392

METHOD OF TREATING FURS AND MACHINE THEREFOR

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2 Sheets-Sheet 1

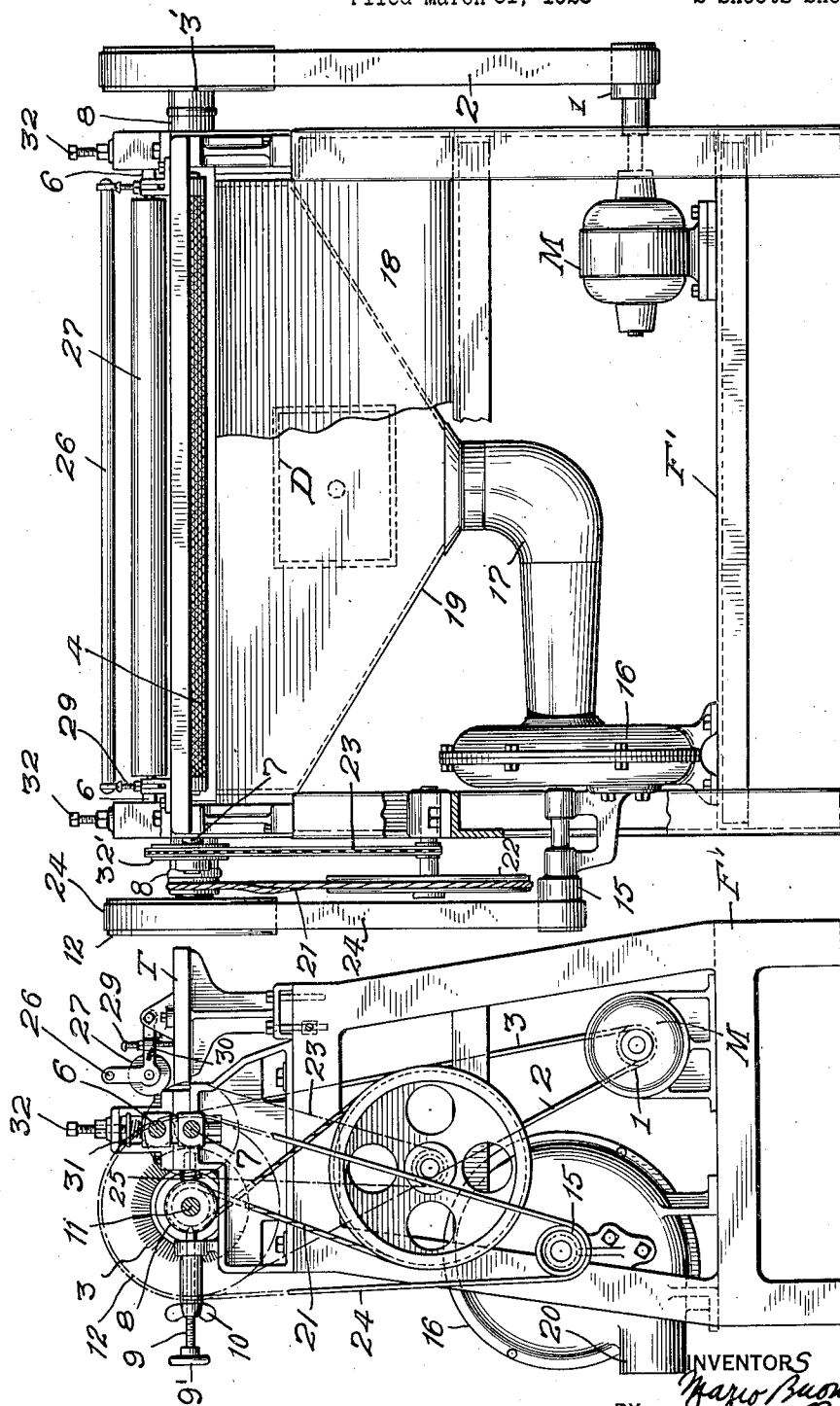


Fig. 1.

Fig. 2.

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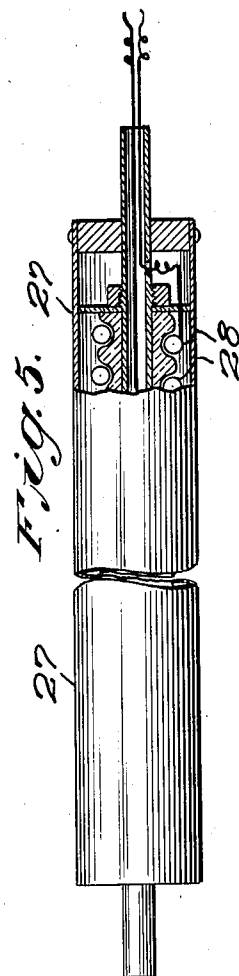
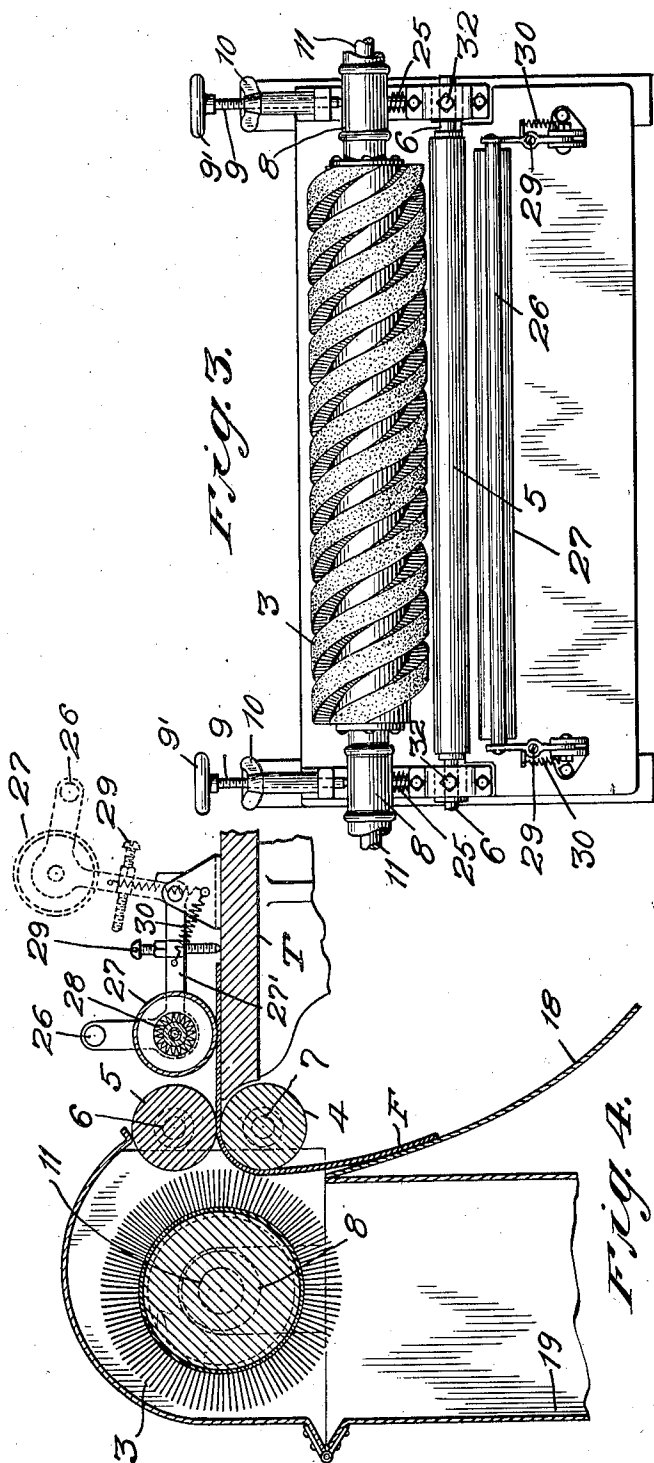
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

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METHOD OF TREATING FURS AND MACHINE THEREFOR.

Application filed March 31, 1928. Serial No. 266,422.

Our invention relates to a new and improved method of treating furs and a new and improved machine for this purpose.

One of the objects of the invention is to provide an improved method for brushing and setting the hairs of furs, in order to provide the fur with the desired fluffy and ornamental appearance.

Another object of our invention is to provide a simple and economical machine for accomplishing this result.

Other objects of our invention will be set forth in the following description and drawings which illustrate a preferred embodiment thereof, it being understood that the above general statement of the objects of our invention is intended to generally explain the same and not to limit it in any manner.

Fig. 1 is a front elevation of a machine embodying our improvements and adapted to practice the method above mentioned.

Fig. 2 is a side elevation.

Fig. 3 is a detail top view showing the brush.

Fig. 4 is a detail sectional view.

Fig. 5 is an elevation partially broken away showing the heating roller.

Heretofore in order to set the hairs of a pelt in order that they should stand up from the base of the fur and present the desired ornamental appearance, the furs were brushed by means of a hand brush and the hair side was then covered with a moist cloth which was pressed by means of a hot iron. This process was slow and expensive and did not efficiently set the hairs of the fur.

According to our invention the fur is subjected to the brushing operation after it has been thoroughly moistened, warmed and pressed, and while the fur is being dried. This results in producing a very fluffy appearance, because the hairs of the fur are firmly set substantially perpendicular to the base thereof, so that the objectionable flat appearance of the untreated fur is eliminated.

The machine illustrated in the drawings has a frame F' upon which a suitable motor M, which may be an electric motor of any suitable type, is mounted. The pulley 1 of the motor M has a belt 2 which turns the pulley 3', mounted upon the brush shaft 11. As shown more particularly in Fig. 3 the brush shaft 11 runs through a bushing 8 which is upwardly urged by means of springs 25. The position of the bushing 8 is regulated by means of screws 9, which may be

vertically adjusted by means of hand wheels 9'. Lock nuts 10 are provided for holding the screws 9 in their adjusted position. The brush 3 has wire bristles spirally arranged, as shown in Fig. 3. The brush shaft 11 also has a pulley 12 which is connected by means of a belt 24 to a pulley 15 mounted on the shaft of the suction blower 16. The shaft 11 is likewise provided with a grooved pulley which is connected by means of a strap or belt 21 to a second grooved pulley 22 mounted on a shaft having a sprocket which is connected by means of the chain 23 to a second sprocket 32' mounted upon the shaft 7 of the bottom knurled feed roller 4. As shown in Fig. 4, this bottom knurled feed roller 4 is located at the end of a feed table T. The bottom knurled feed roller 4 co-operates with a similar upper knurled feed roller 5 mounted upon a shaft 6. The bearing of the upper shaft 6 is pressed downwardly by means of springs 31, whose pressure is regulated by means of screws 32.

Hence, a piece of fur F which is fed between the feed rollers 4 and 5 with its hair side uppermost is seized and fed forwardly by the said feed rollers 4 and 5 so that it is fed on to a deflector 18, which causes it to slide forward to the front or feed end of the machine. The bristles of the brush 3 exert a brushing action upon the hair of the fur, as the fur or pelt is fed downwardly upon the member 18. The suction blower 16 which may be of any suitable type, has an inlet pipe 17 which is connected to the hood 19 of the machine. Hence, dirty loose hairs and the like pass through the suction blower 16 and they can be ejected through the outlet 20 into a suitable bag. A door D is provided in the hood 19 to enable access to the interior thereof.

A hollow roller 27 is provided with an electric resistance coil 28 in the interior thereof, by means of which the said roller 27 can be heated to any suitable temperature. This temperature may be sufficient to cause steam or vapor to arise from the moistened fur, although we do not limit ourselves to any particular temperature. The roller 27 is turnably mounted upon an arm 27', which is pivotally mounted upon brackets connected to the feed table T. The heated roller 27 is provided with an arm 26 whereby it may be moved back to the inoperative or dotted line position indicated in Fig. 4. Stop screws 29 are provided for regulating the forward

movement of the heating roller 27, and tension springs 30 are provided for regulating the pressure with which the heated roller 27 is pressed against the hair of the fur.

5 The operation of the device is as follows:

If it is merely desired to brush the fur without steaming the same, the heated roller 27 is moved to the inoperative position illustrated by the dotted line position shown in Fig. 4.

10 However, in order to efficiently set the hair of the fur in the proper position, the fur can be moistened by means of a brush and the fur can then be fed to the machine with the heated roller in the operative position. The wet hairs of the fur are brushed in the same direction in which they are brushed by the member 3. The heated roller 27 heats the moist fur so that vapor preferably arises therefrom so that not only the hair of the fur but also the base or leather of the fur are moist and warm. The warm and moist fur is then fed forwardly by the feed rollers 4 and 5 so that it is subjected to a rapid drying action by the current of air induced by the blower 16. Hence, the hair of the fur as well as the base of the fur are subjected to a rapid drying operation, while the hair is simultaneously brushed.

20 Experience has shown that this results in the setting of the hairs of the brush almost perpendicular to the base thereof. It is not necessary that the base of the fur should be moist during the brushing operation, but this is preferable. The fur may be fed through the machine any number of times until the hair has been properly set, and it is then allowed to dry.

We have shown a preferred embodiment of

our invention, but it is clear that numerous changes and omissions could be made without departing from the spirit of our invention.

We claim:—

1. A machine for setting the hairs of a pelt comprising brushing means, feeding means adapted to feed the pelt towards said brushing means, and means adapted to heat the fur before it is subjected to the action of the brushing means.

2. A machine for setting the hairs of a pelt comprising brushing means, feeding means adapted to feed the pelt towards said brushing means, and roller means adapted to heat the fur before it is subjected to the action of the brushing means, and means adapted to force a current of air over the hairs after they have been subjected to the brushing operation.

3. A method of setting the hairs of a pelt which consists in moistening and heating the said hairs, and subsequently brushing the hairs while permitting them to dry and cool.

4. A method of setting the hairs of a pelt which consists in moistening the hair side thereof, and then brushing the hairs of the fur while subjecting them to the action of an air current to dry them.

5. A method of setting the hairs of a fur which consists in moistening the hairs, directly heating the said hairs, brushing the said hairs while they are in the hot and moist condition and subjecting the brushed hairs to the action of an air current to rapidly dry them.

In testimony whereof we affix our signatures.

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