July 21, 1936. H. P. LAWTON ET AL 2,047,973

APPARATUS FOR TREATING LEATHER

Filed June 4, 1935

Fig. 1.

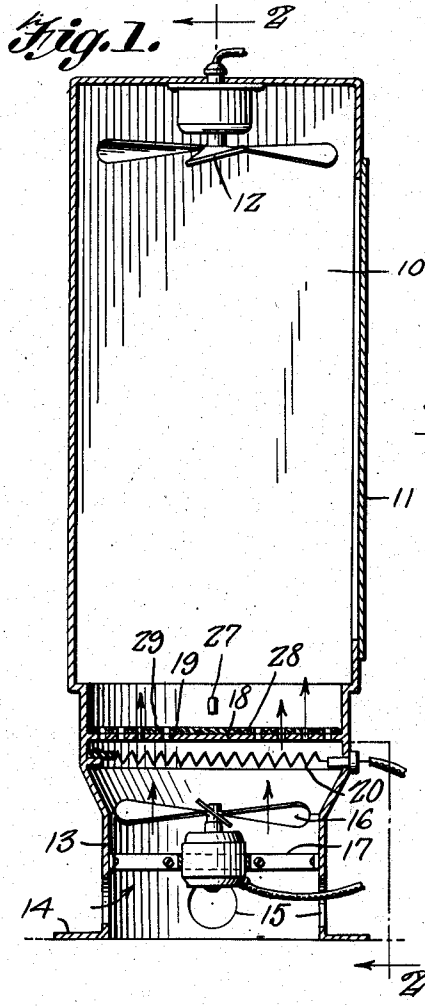


Fig. 2.

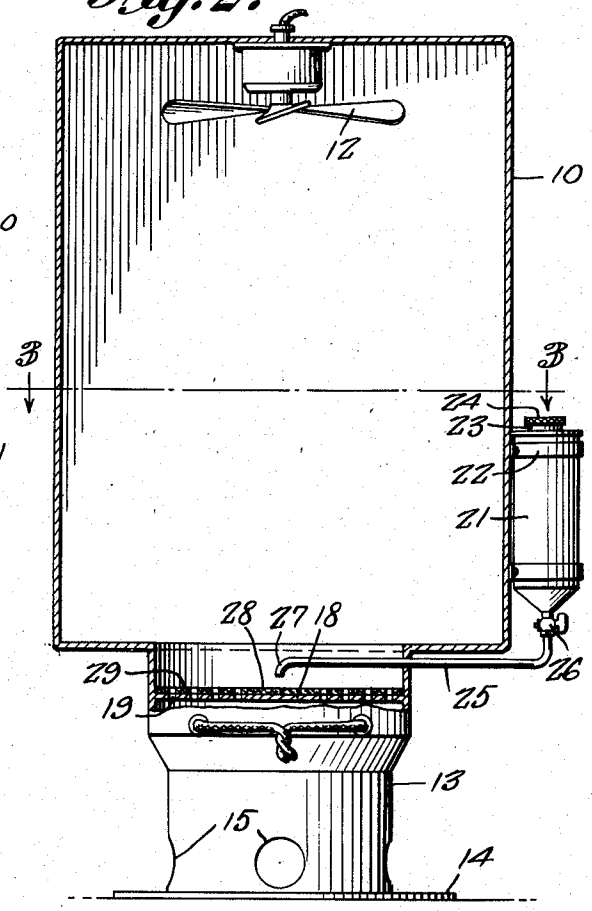
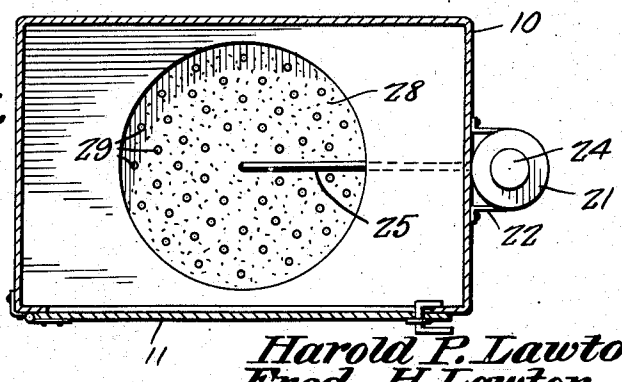


Fig. 3.



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APPARATUS FOR TREATING LEATHER

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3 Claims. (Cl. 149—8)

This invention relates to an apparatus for treating leather and has for an object to provide a device for impregnating skins with a perfumed vapor in such manner that the scent or odor will permanently eliminate the leather odor and the odor from tanning and create a pleasant odor in leather articles such as glove leather, coat leather, pocketbooks, shoes and other articles formed of tanned leather.

A further object is to provide apparatus which may be employed for the treatment of various materials, and in which the perfumed vapor is created exteriorly of the treating cabinet and is forced into the treating cabinet under pressure while the cabinet is supplied with means for causing the circulation of the perfumed vapor, thus insuring the thorough impregnation of the skins or other material with the perfumed vapor, which we believe to be largely due to the fact that the perfumed vapor is injected into the cabinet under pressure, thereby insuring its penetration into the material to be treated.

With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming part of this specification,

Figure 1 is a longitudinal sectional view of apparatus constructed in accordance with the invention.

Figure 2 is a longitudinal sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a cross sectional view taken on the line 3—3 of Figure 2.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, 10 designates a treating cabinet in which the skins or other leather articles may be hung in any preferred manner, access to the cabinet being had through a hinged door 11. Preferably the cabinet is sealed against leaks in any preferred manner so as to be substantially pressure-tight. A fan 12 of conventional type is mounted preferably on the top of the cabinet to create a circulation of atmosphere within the cabinet.

A casing 13 is preferably mounted below the treating cabinet and forms a support for the treating cabinet, the casing having a flanged base 14 which forms a supporting base for the cabinet and the casing. The casing is open at the top and communicates through the open top with the interior of the cabinet. Air inlet openings 15 are formed in the walls of the casing near the bottom of the casing. A fan 16 of conventional type is secured in the casing by a bracket 17 and forces air under pressure upwardly through the casing into the cabinet.

A metal plate 18 is disposed horizontally in the casing above the fan and is provided with perforations 19 through which the blast created by the fan 16 may enter the cabinet. A heater, preferably a resistance coil 20, is mounted in the casing between the plate 18 and the fan 16, the purpose of this coil being twofold, namely, it heats the plate 18 for vaporizing the perfumed treating medium as will be presently described, and it heats the blast created by the fan so that the treating cabinet is supplied with a heated atmosphere for heating the leather articles such as skins or the like to open the pores of the leather.

A container 21 for a perfumed liquid may be mounted on the exterior of the treating cabinet by means of strap brackets 22, the container having at the top a filling tube 23 closed by a cap 24 and being provided at the bottom with an outlet pipe 25 which is controlled by a valve 26. The outlet pipe enters the casing 13 and is provided with a downwardly turned spout 27 disposed in axial alignment with the plate 18. A disc 28 of absorbent material is disposed on top of the plate 18 and is provided with perforations 29 which register with the perforations in the plate.

When the valve 26 is opened the perfumed liquid will drip from the spout 27 on to the absorbent disc which is heated by the hot plate 18 and will be vaporized. The heated perfumed vapor will be forced under pressure into the treating cabinet by the blast from the fan 16 and will be circulated by the fan 12 around the hanging skins or leather articles. By thus subjecting the skins or leather or any other material to contact with a heated atmosphere of perfumed vapor, for a length of time depending upon the leather being treated, the natural odor of the leather, as well as the unpleasant tanning odor will be replaced by the scent of the perfumed vapor. By the use of vapor which has been heated, and also by heating the leather, the product has been found to successfully withstand washing with soap and warm water, heating during the pressing operation, sunshine, and perspiration from the body when in the form of gloves, coats and the like without destroying the impregnated scent.

From the above description it is thought that the construction and operation of our invention will be fully understood without further explanation.

What is claimed is:

1. Apparatus for impregnating skins with perfumed vapor including a treating cabinet, a casing below the cabinet and communicating with the cabinet, a perforated plate extending horizontally in said casing, a resistance coil below the plate for heating the plate, a supply pipe for a perfumed treating liquid entering the casing above said plate, and a fan in the casing below the plate adapted to be energized simultaneously with the coil.

2. Apparatus for impregnating skins with perfumed vapor including a treating cabinet, a fan in the cabinet for causing circulation around the skins, a fan disposed exteriorly of the cabinet, means for vaporizing a perfumed treating liquid disposed between the last named fan and the cabinet, and a heater disposed between said means and the last named fan, the named fan being adapted to force the heated perfumed vapor into the cabinet under pressure.

3. Apparatus for impregnating skins with perfumed vapor including a treating cabinet, a container for a perfumed liquid having an outlet pipe, a casing communicating with the cabinet, said outlet pipe entering the casing, a perforated plate in the casing, a perforated disc of absorbent material on the plate, said outlet pipe confronting said disc and being adapted to discharge the perfumed liquid upon said disc, a heater below the plate for heating the plate and the disc to vaporize the perfumed liquid, and a fan below the heater adapted to force the perfumed vapor into the treating cabinet.

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