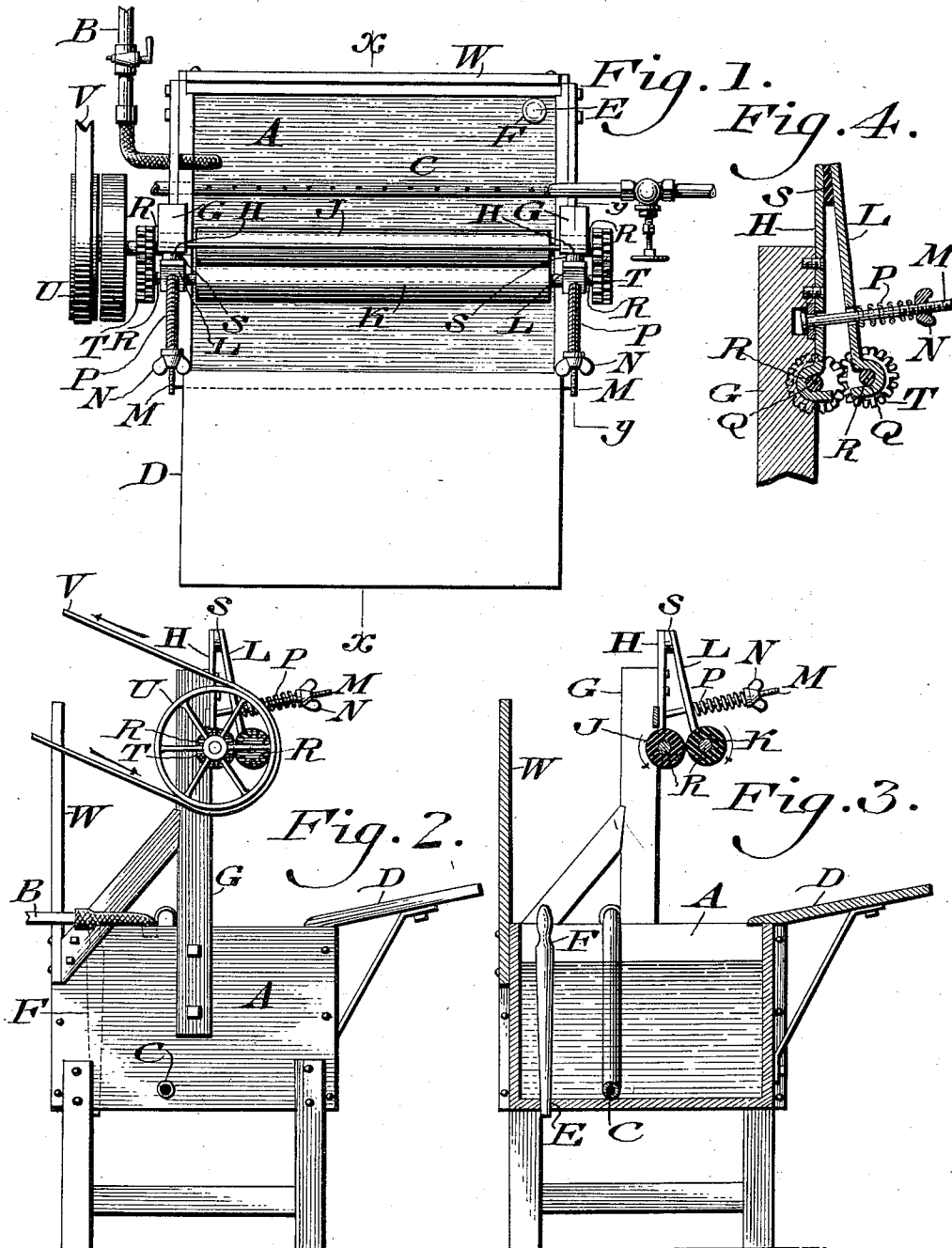


A. ROELOFS.
MACHINE FOR CLEARING HAT BODIES.
APPLICATION FILED APR. 23, 1910.

1,013,315.

Patented Jan. 2, 1912.



WITNESSES
P. F. Nagle.
L. Douville.

INVENTOR
BY Arthur Roelofs.
Wiedersheim & Taubert
ATTORNEYS

UNITED STATES PATENT OFFICE.

ARTHUR ROELOFS, OF PHILADELPHIA, PENNSYLVANIA.

MACHINE FOR CLEARING HAT-BODIES.

1,013,315.

Specification of Letters Patent.

Patented Jan. 2, 1912.

Application filed April 23, 1910. Serial No. 557,204.

To all whom it may concern:

Be it known that I, ARTHUR ROELOFS, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Machine for Clearing Hat-Bodies, of which the following is a specification.

My invention relates to an improvement in the manufacture of hats and consists of a machine for clearing or divesting the same of surplus shellac and other solution contained in the hats after stiffening and steaming, said machine involving novel features, as will be pointed out in the claim that follows the specification.

For the purpose of explaining the invention, the accompanying drawing illustrates a satisfactory reduction of the same to practice, but the important instrumentalities thereof may be varied, and so it is to be understood that the invention is not limited to the specific arrangement and organization shown and described.

Figure 1 represents a plan view of a hat-body clearing machine embodying my invention. Fig. 2 represents a side elevation thereof. Fig. 3 represents a vertical section on line $x-x$, Fig. 1. Fig. 4 represents a vertical section of a portion on line $y-y$, Fig. 1.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings:—A designates a tank or vat which is adapted to contain a fluid in which hats are immersed primarily, the same having a fluid supply pipe B, a steam-heating pipe C, a table or platform D, an outlet or discharge opening E, and a plug or stopper F for closing the latter. Rising from the vat are the standards G, with which are connected stationarily the hangers H, forming a bearing for the roller J, opposite to which latter is the roller K, whose bearings are on the hangers L, which latter are attached to the hanger H by the bolts M, which pass freely through said hangers L and are connected with said hangers H, it being noticed that the bolts M are also passed freely through said stationary hangers H and have their heads rested freely against the backs of the same, providing a firm and convenient manner of

connecting the bolts therewith, and also preventing the hangers from binding on the bolt in the motions of the movable hangers. On said bolts are nuts N, between which and the hangers L are the springs P, so that the proper pressure may be imparted to the pair of rollers J, K. The lower portions of the hangers H, L are formed with semi-cylindrical or segmental recesses Q, in which the journals R of the rollers J, K are removably mounted.

Interposed between the tops of the opposite hangers H, L are buffers S of rubber or other elastic or pliable material so as to provide resiliency to said hangers in their motions toward each other.

The rollers J, K are formed of soft rubber and their journals have connected with them the pinions T, which are geared freely together and receive power in any suitable manner, in the present case by the pulley U and belt V.

The vat is provided with a splash board W, the same being in front of the rollers J, K for evident purposes.

The operation is as follows: The hats are placed in the water in the vat and so steamed, and the rollers are operated so as to rotate in the direction of the arrow. The hats are fed to said rollers so as to be passed between the same, whereby the surplus shellac and fluid in the hats are expressed therefrom and the hats are effectively cleared. The surplus shellac and fluid drop from the rollers and return into the vat for reuse.

It will be apparent that I have devised a simple and efficient mechanism for clearing and removing surplus material such as shellac and other solutions used in stiffening and steaming hats in the process of manufacture and whereby the hats are made ready for the last or finishing steps.

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

In a machine for clearing hats, a vat, standards rising therefrom, a pair of hangers for each standard one of each pair of hangers being stationarily secured to its standard and the other hanger being loosely connected with its mate, means passed through said hangers intermediate their

ends and on which the loose hangers are suspended, elastic buffers interposed between the upper ends of the pairs of hangers, the lower ends of said hangers having segmental recesses, rollers having their journals removably mounted in said recesses, a spring tending to hold the lower ends of said hangers pressed toward each other, intermeshing gears on the outer ends of the journals of said rollers, and means for imparting motion to one of said rollers.

ARTHUR ROELOFS.

Witnesses:

JOHN A. WIEDERSHEIM,
WM. CANER WIEDERSEIM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."