

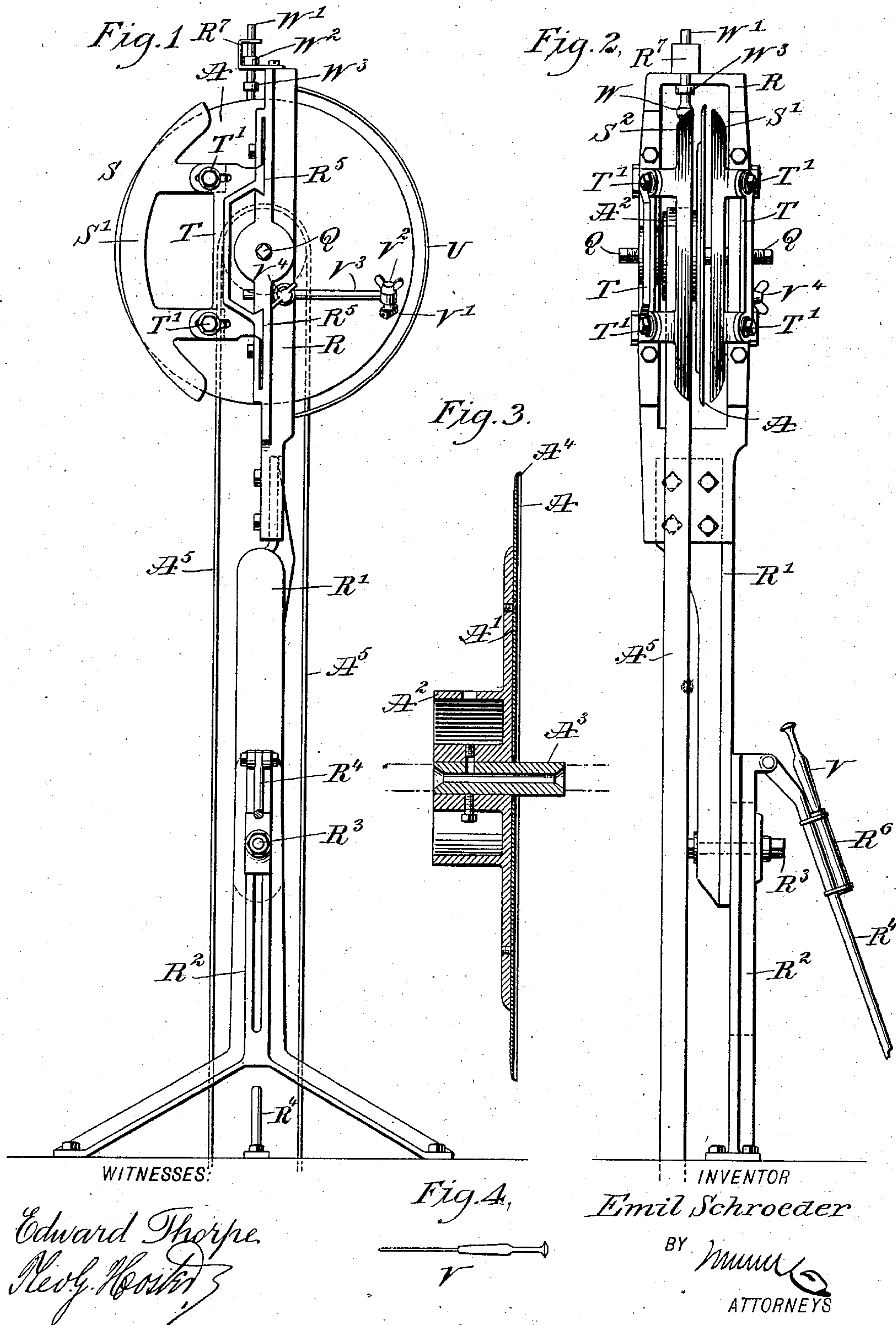
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E. SCHROEDER.
FLESHING AND SHAVING MACHINE.

APPLICATION FILED OCT. 27, 1903.

NO MODEL.



UNITED STATES PATENT OFFICE.

EMIL SCHROEDER, OF NEW YORK, N. Y.

FLESHING AND SHAVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 751,349, dated February 2, 1904.

Application filed October 27, 1903. Serial No. 178,695. (No model.)

To all whom it may concern:

Be it known that I, EMIL SCHROEDER, a citizen of the United States, and a resident of the city of New York, East New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Fleshing and Shaving Machine, of which the following is a full, clear, and exact description.

The invention relates to fleshing and shaving machines for raw and dressed furs or skins, such as shown and described in the Letters Patent of the United States, No. 741,553, granted to me October 13, 1903.

The object of the present invention is to provide a new and improved fleshing and shaving machine which is simple and durable in construction and very effective in quickly and accurately removing the surplus flesh from the under or flesh side of raw furs or skins or for paring or shaving the under or flesh side of dressed furs or skins to reduce the same to a desired uniform thickness.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improvement. Fig. 2 is a front elevation of the same. Fig. 3 is an enlarged cross-section of the rotary cutter, and Fig. 4 is a plan of a sharpening-tool employed.

The circular cutter A of the machine is in the form of a disk secured to a flange A', extending integrally from a pulley A², having its hub fastened on a spindle A³, hung in centers Q Q, screwing in the sides of a head R. A belt A⁵ connects the pulley A² with other machinery to impart a rotary motion to the cutter A for the latter to rotate, say, about four hundred revolutions per minute. The head R is bolted or otherwise secured on an arm R', vertically adjustable on the stand R² by a bolt R³, extending through a vertical slot in the stand, the latter being fastened to the

floor and braced sidewise by a floor brace or lug R⁴, fulcrumed at its upper end on the stand R².

By the arrangement described the head R and the parts carried thereby can be raised or lowered to suit the height and convenience of the workman.

The cutter A is provided with an annular curry-knife edge A⁴, extending between the spaced segmental members S' and S² of a stretcher-gage S, carried by the head R, the said gage members S' S² being held adjustable in a longitudinal direction by bolts T' on brackets T, and the latter are held transversely adjustable in guideways R⁵, formed on the head R. By the arrangement described the segmental members S' and S² can be adjusted nearer to or farther from the sides of the cutter A, according to the nature of the fur or skin under treatment, and the members S' and S² can also be adjusted lengthwise to project the curry-knife edge A⁴ of the cutter more or less beyond the front edges of the middle of the members S' and S², according to the thickness of the flesh to be removed from the fur or skin. The adjustment described also compensates for wear of the cutter A.

The curvature of the members S' and S² is such that the outer ends thereof extend beyond the curry-knife edge A⁴ of the cutter A to prevent cutting or shaving at this point, and the members are curved in a transverse direction to permit of drawing the furs or skins easily across the cutter A.

The rear of the cutter A is covered by a band or hood U, fixed at its ends to the head R of the main frame or stand of the machine, it being understood that in using the machine the operator stands at the rear of the machine and is protected from the revolving cutter A by the said hood or band U. In using the machine the operator having hold of the skin or fur with both hands draws the skin or fur sidewise, and preferably from the left to the right, over the middle of the gage members S' and S² against the cutting edge A⁴ of the rotary cutter A, so that the said cutting edge A⁴ cuts the surplus flesh from the under side of the fur or skin to a depth corresponding to the distance the cutting edge A⁴ pro-

jects beyond the middle portions of the gage members S' S^2 .

It is evident that by drawing the straightened flesh sides of the fur or skin across the machine in the direction described the flesh surface of the fur or skin is in contact simultaneously with the middle portions of the gage members S' and S^2 —that is, at two places located on opposite sides of the cut made by the cutting edge A^4 of the cutter A —and hence the latter cannot cut deeper into the skin than the distance which the cutting edge of the cutter projects beyond the middle portions of the gage members S' and S^2 , and an unskilled workman is therefore not liable to injure the fur or skin by causing too deep or irregular cuts.

After the raw skin or fur is freed of the flesh it is dressed in the usual manner, and then the above-described operation is repeated for paring or shaving the under side of the fur or skin to a uniform thickness.

In order to enable the workman to keep the curry-knife edge steeled, and thus sharp, a tool, such as a finger-steel V , is used, normally held in a pocket R^6 , preferably attached to the brace R^4 , as plainly shown in the drawings. The tool V consists of a handled steel shank adapted to be passed through a bearing V' , adjustably fastened by a bolt V^2 to an arm V^3 , attached by a bolt V^4 to the head R . The bearing V' is so adjusted that when the tool V is inserted the tool stands obliquely to the face of the cutter, and the free end of the tool shank moves in engagement with the inner or curved portion of the edge A^4 , and by the operator pressing the tool inward the said shank end bears heavily on the edge A^4 of the revolving cutter A , and thus steels and sharpens the edge. When this has been done, the operator removes the tool V from the bearing V' and inserts the tool in a bearing W for engaging the outer curved portion of the edge A^4 to take off any minute burs that may have formed, at the same time truing the outer portion of the edge.

The bearing W is held or formed on the lower end of a rod W' , fitted to slide vertically and to turn in a bracket R^7 , secured to the top of the head R . Collars W^2 W^3 are held spaced upon the rod W' to limit the upward and downward sliding motion of the rod and its bearing W .

After the cutter A has been sharpened, as described, the tool V is returned to the pocket R^6 and the fleshing and shaving of the furs or skins is proceeded with, as above described. The pocket is filled with oil, so as to keep the

steel oily to make the edge of the knife smooth and sharp. The spindle A^3 is made hollow to form an oil-well for containing oil to lubricate the centers Q Q .

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

1. A machine for fleshing and shaving raw and dressed furs, provided with a cutter having an annular curry-knife edge, and a stretcher-gage having adjustable gage members on opposite sides of the said cutter, the said members being in the form of segments of larger radius than the said cutter, to project the ends of the members beyond the curry-knife edge, as set forth.

2. A machine for fleshing and shaving raw and dressed furs, provided with a cutter having an annular curry-knife edge, and a stretcher-gage having adjustable gage members on opposite sides of the said cutter, the said members being in the form of segments of larger radius than the said cutter, to project the ends of the members beyond the curry-knife edge, and the said members being curved in a transverse direction, as set forth.

3. A machine for fleshing and shaving raw and dressed furs, provided with a rotary cutter having an annular curry-knife edge, a bearing adjacent to the said cutter, and a tool guided in the bearing, for engaging the curry-knife edge of the cutter, as set forth.

4. A machine for fleshing and shaving raw and dressed furs, provided with a rotary cutter having an annular curry-knife edge, a bearing, and a tool guided in the bearing, for engaging the curry-knife edge of the cutter, the bearing being held adjustable to hold the tool in an oblique direction relative to the face of the cutter and to bring the terminal of the tool against the inner turned-over portion of the curry-knife edge, as set forth.

5. A machine for fleshing and shaving raw and dressed furs, provided with a rotary cutter having an annular curry-knife edge, a bearing, and a tool guided in the bearing, for engaging the curry-knife edge of the cutter, the bearing being held to turn and to move up and down, to bring the shank of the tool against the outer turned-over surface of the curry-knife edge, as set forth.

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

EMIL SCHROEDER.

Witnesses:

THEO. G. HOSTER,
EVERARD B. MARSHALL.