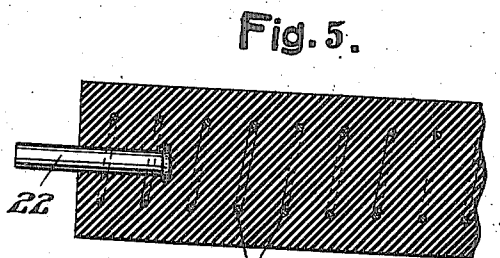
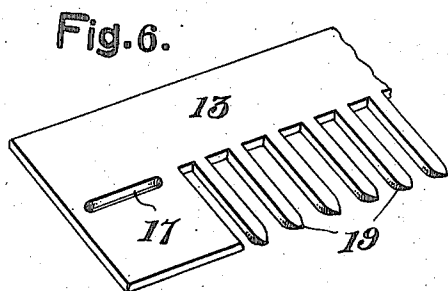
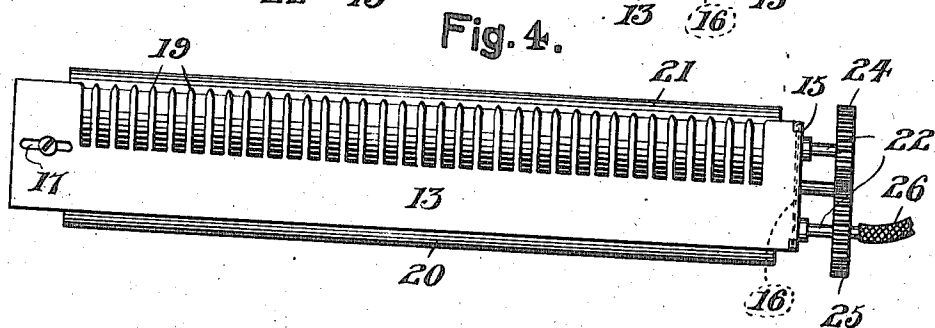
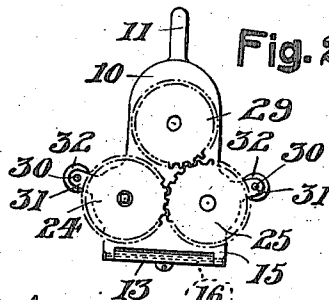
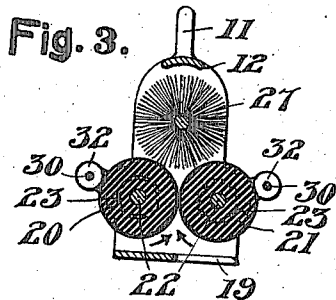
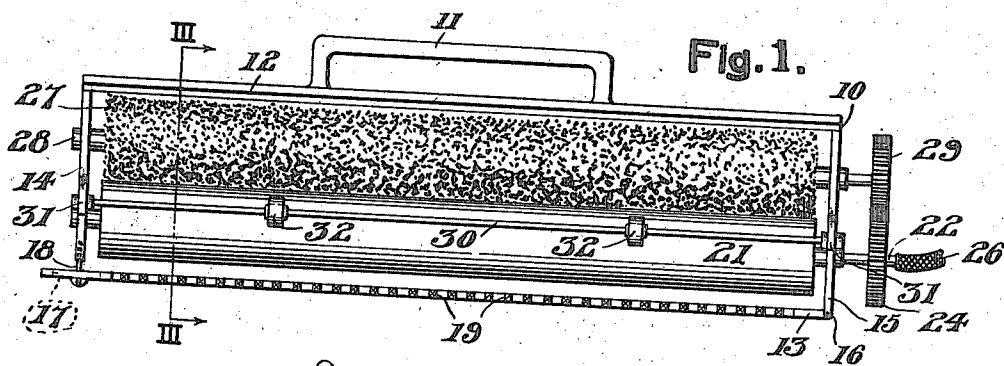


F. E. PATTON.
FEATHER PULLING DEVICE.
APPLICATION FILED NOV. 6, 1916.

1,233,904.

Patented July 17, 1917.



Inventor
F. E. Patton

By

C. H. Dean

Attorney

UNITED STATES PATENT OFFICE.

FLOYD E. PATTON, OF BLOOMINGTON, ILLINOIS.

FEATHER-PULLING DEVICE.

1,233,904.

Specification of Letters Patent.

Patented July 17, 1917.

Application filed November 6, 1916. Serial No. 129,714.

To all whom it may concern:

Be it known that I, FLOYD E. PATTON, a citizen of the United States, residing at Bloomington, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Feather-Pulling Devices, of which the following is a specification.

This invention relates to certain new and useful improvements in feather removers.

The primary object of the invention is the provision of a mechanical contrivance adapted for the so-called picking of fowls whereby the feathers are readily removed in a cleanly manner without wetting or steaming the same.

A further object of the invention is the provision of a device for removing feathers from a fowl preparatory to cooking the same being capable of quickly operating freeing the entire surface of the fowl from all manner of feathers.

A still further object is the provision of a device that is easy and inexpensive to manufacture especially adapted for use where large numbers of fowls are picked for sale or for cooking, any desirable form of power means being employed for the operation thereof.

In the drawing forming a part of this application and in which like designating characters refer to corresponding parts throughout the several views:—

Figure 1 is a front elevation of the device.

Fig. 2 is an end elevation thereof.

Fig. 3 is a transverse sectional view taken upon line III—III of Fig. 1.

Fig. 4 is a bottom plan view of the invention.

Fig. 5 is an enlarged central longitudinal sectional view of a portion of one of the pulling rollers, and,

Fig. 6 is a perspective view of an end portion of the comb employed with the device.

It will be understood that in killing chickens and other fowls it is customary to render death in such a manner as to relax the nerves and tissues of the fowl whereby the feathers are loosened to a sufficient extent to be readily removed by pulling the same and the present invention is designed for removing the feathers of fowls so executed.

The device consists of an elongated U-shaped frame 10 having a handle 11 carried by the top 12 thereof and a comb 13 at-

tached to the opposite ends 14 and 15 of the frame. The said comb 13 is formed of an extremely flexible thin piece of steel having one end hinged as at 16 to the frame end 15 while the opposite end of the comb has a longitudinal slot 17 freely positioned upon a screw 18 downwardly projecting from the opposite end 14, it being understood that the said comb is provided with a plurality of teeth 19 of substantially the usual form projecting laterally of the frame.

Two similar feather pulling rollers 20 and 21 are arranged journaled in the ends 14 and 15 by means of terminal stub axles 22 with which each roller is provided, the said rollers being formed of soft rubber molded around a helical wire core 23 with the axles 22 embedded in the opposite ends of the rollers, as best illustrated in Fig. 5 of the drawing. Meshing gears 24 and 25 are secured to the axles 22 of the rollers 20 and 21 respectively, outwardly of the end 15 while a flexible driving shaft 26 is attached to the free projecting end of one of the said axles 22.

A cylindrical brush 27 is journaled by means of its central rod 28 in the ends 14 and 15 above and in contact with the rollers 20 and 21, a gear 29 being carried by one end of the rod 28 in constant mesh with the aforementioned gear 25. Opposite shafts 30 are secured in projecting lugs 31 of the frame ends 14 and 15 having relatively small wheels 32 journaled thereon in spaced relations in substantial engagement with the rollers 20 and 21. By revolving the flexible shaft 26, the rollers 20 and 21 are revolved inwardly for receiving and pulling the feathers projecting thereagainst through the comb 13 while the brush 27 separates the feathers from the rollers, cleaning the latter and clearing them for successive operations.

It will be understood that the device is grasped by the handle 11 and the comb 13 pressed upon the fowl between the teeth 19 of which comb the feathers project to be grasped by the rollers 20 and 21, the flexibility of the comb 13 permitting the device to be forcibly held against the fowl whereupon the comb will bend inwardly against the said rollers which by reason of their soft constituency added with their flexibility, allows them to flex toward the frame top 12 during the operation thereof while the wheels 32 prevent any lateral bending of the rollers 20 and 21.

A serviceable device is arranged easily op-

erable in quickly removing feathers from fowls as soon as the latter are killed and without first treating the fowl with any feather loosening or removing solution.

5 What I claim as new is:—

1. A feather remover comprising a frame, a flexible comb hinged at one side thereof, opposite inwardly and upwardly flexible rollers journaled parallel to the said comb, 10 a cleaning brush engaging the said rollers journaled in parallelism thereto, and simultaneous driving means for the said rollers and brush.

2. A feather remover comprising an elongated frame, a flexible metallic toothed comb hinged to one end of the frame and having loose connection with the opposite end thereof, flexible pulling rollers in contact with each other journaled in the said 20 frame adjacent said comb, limiting wheels for the said rollers, cleaning means for the said rollers, and gear connections between the said rollers and cleaning means.

3. A feather remover comprising a frame, 25 a thin flexible toothed comb co-extensive with one side thereof having an inward flexing movement, inwardly revoluble pulling rollers journaled in the said frame parallel to the said comb bendable simultaneously 30 with the said comb, cleaning means for the

said rollers, and operating means for the rollers and cleaning means.

4. A device of the class described comprising a portable frame, a fowl-engaging feather-contacting flexible comb carried by 35 the frame, pulling rollers carried by the frame inwardly flexible in contact with the said comb, and operating means for the said rollers.

5. A feather remover comprising a U- 40 shaped frame, a flexible comb hinged thereto adapted for bending inwardly of the frame during the operation of the device, soft rubber rollers having helical wire cores journaled in the said frame adjacent the said 45 comb, and operating means for the said rollers.

6. A feather remover comprising a U- 50 shaped frame, a flexible comb hinged to said frame, adapted for bending inwardly of the frame during the operation of the device, soft rubber rollers having helical wire cores journaled in the said frame adjacent the said comb, rigid guide members journaled 55 in the said frame for preventing lateral outward movement of the said rollers, and operating means for said rollers.

FLOYD E. PATTON.

Witness:

BENNETT S. JONES.