July 2, 1946. M. A. BROWN 2,402,946

EGG CLEANING DEVICE

Filed July 3, 1945

Fig. 1.

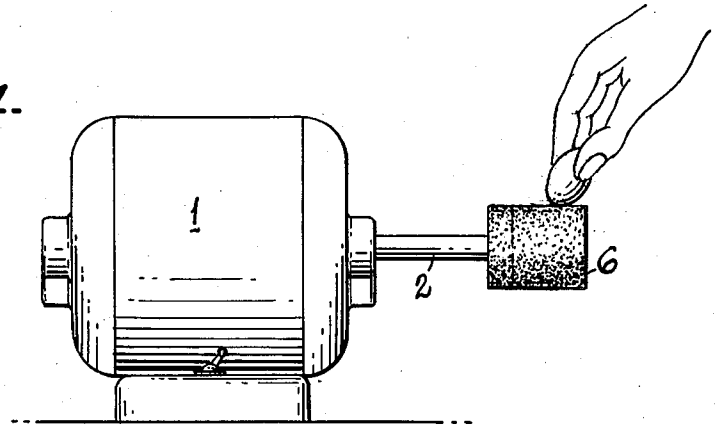


Fig. 2.

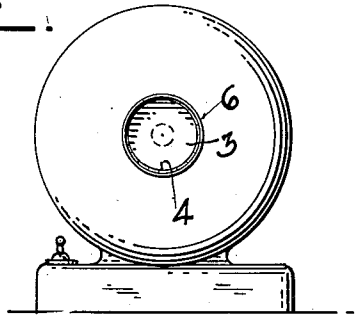
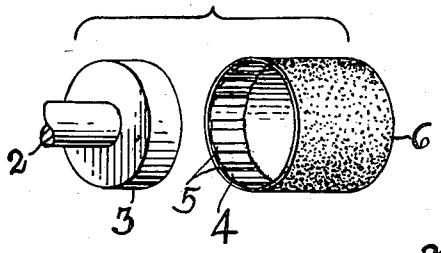


Fig. 3.



INVENTOR
BY Michael A. Brown

J. E. Trabucco
ATTORNEY

Patented July 2, 1946

2,402,946

UNITED STATES PATENT OFFICE

2,402,946

EGG CLEANING DEVICE

Michael A. Brown, San Francisco, Calif.

Application July 3, 1945, Serial No. 603,075

1 Claim. (Cl. 51—190)

1

This invention relates to improvements in egg cleaning devices.

An object of my invention is to provide an improved egg cleaning device embodying a yieldable abrasive element capable of being readily mounted on a rotatable motor driven member and which, when engaged with undue firmness during an egg cleaning operation, will yield sufficiently to avoid the breaking of the egg.

Another object of my invention is to provide an improved egg cleaning device comprising a yieldable ring shaped member carried by an annular collar which is capable of being detachably secured to a motor driven wheel.

Other and further objects of my invention will be pointed out hereinafter, or will be obvious to one skilled in the art upon an understanding of the present disclosure. For the purpose of this application I have elected to show herein certain forms and details of an egg cleaning device representative of my invention; it is to be understood, however, that the embodiment of my invention herein shown and described is for the purpose of illustration only, and that therefore it is not to be regarded as exhaustive of the variations of the invention, nor is it to be given an interpretation such as might have the effect of limiting the claim short of the true and most comprehensive scope of the invention in the art.

In the accompanying drawing:

Fig. 1 is a plan view of an egg cleaning device embodying my invention;

Fig. 2 is a side view of the same; and

Fig. 3 is an enlarged perspective view of the connectable parts comprising the device.

Referring to the drawing, the numeral 1 designates an electric motor or other driving means having a shaft 2 to which is secured a driving pulley or wheel 3. My invention embodies a collar 4 of slightly larger diameter than the wheel 3 preferably having a series of inwardly protruding resilient ribs 5 which are arranged in spaced circular formation. When the collar is mounted on the wheel, the resilient ribs 5 firmly engage with the periphery of the wheel and prevent the slipping

2

of the collar with respect to the wheel when the latter is rotated by the motor.

Suitably secured at one of its ends to the collar 4 is a tubular abrasive element 6 which is sufficiently resilient to be yieldable when engaged with undue firmness by an egg during a cleaning operation. As an example, the abrasive element 6 may be made from a fairly stiff but yieldable paper or fabric material formed into a tube of suitable size and coated exteriorly with sand or other abrasive material. The abrasive element may also be made from emery cloth or other material which has an exteriorly roughened surface.

In operation, an egg to be cleaned is manually held against the free portion of the abrasive element 6 while the latter is being rotated by the motor. The egg is ordinarily lightly pressed against the abrasive element to remove any roughness or dirt which might be present on the surface of its shell. With the devices now commonly used, many eggs are broken by reason of the operator accidentally pressing the egg too firmly against the non-yieldable abrasive elements now in use. With the present invention, however, a more than ordinary pressure may be applied without breaking the egg, the increased pressure merely causing the yieldable abrasive element to bend inwardly at its free end without breaking the egg.

What I claim is:

In an egg cleaning device, a rotatable driving member, a collar attachable to the driving member, the said collar having inwardly protruding ribs for engaging with the driving member to prevent the shipping of the collar when the driving member rotates a yieldable tubular abrasive element secured to and carried by the collar, the said abrasive element having a substantial part arranged in projecting and free relationship with respect to the collar and the driving member, whereby when said part is engaged by an egg during a cleaning operation, a flexible surface is provided which permits a change in pressure between the egg and the said part to a predetermined extent without breaking the egg.

MICHAEL A. BROWN.