Feb. 16, 1937. G. G. DAVIS 2,070,712

CLEANING AND POLISHING DEVICE

Filed June 9, 1936

Fig. 1.

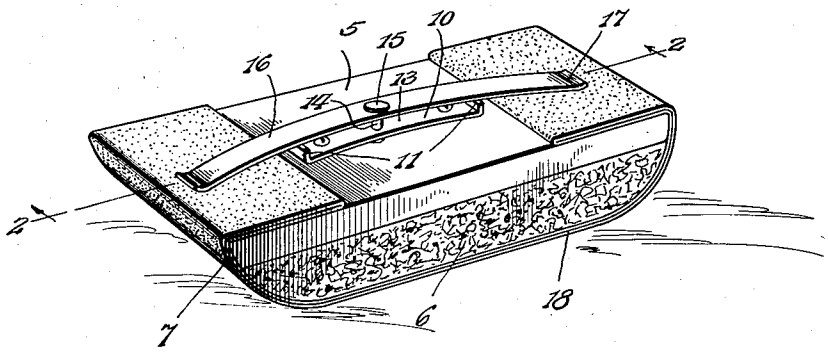
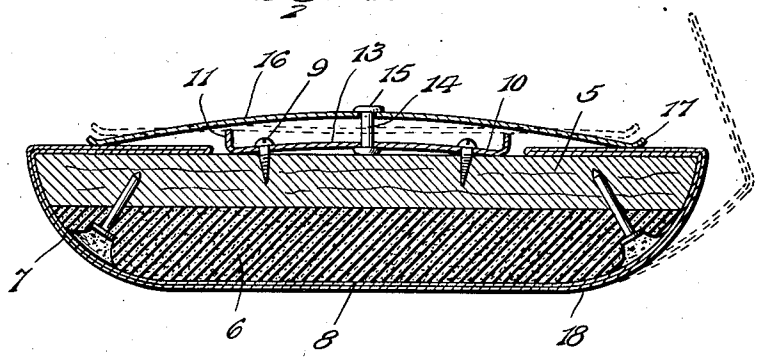


Fig. 2.



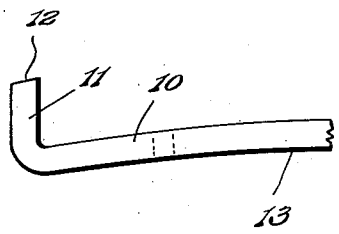


Fig. 3.

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Patented Feb. 16, 1937 2,070,712

UNITED STATES PATENT OFFICE

2,070,712

CLEANING AND POLISHING DEVICE

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Application June 9, 1936, Serial No. 84,380

4 Claims. (Cl. 51—187)

This invention relates to cleaning and polishing devices and more particularly to a tool or implement for cleaning eggs.

The object of the invention is to provide a comparatively simple and inexpensive device of the character described especially designed for removing spots or other blemishes from the shells of eggs prior to shipping the same and which may be used with equally good results for other purposes.

A further object of the invention is to provide a cleaning tool including a holder having a yieldable pad mounted thereon and over which extends a strip of sand paper or other abrading material, means being provided for detachably securing the opposite ends of the abrasive strip to said holder whereby to permit ready removal and replacement of the abrading material or longitudinal adjustment thereof to present a fresh abrasive surface to the work.

A further object is to provide the holder with a bracket having terminal upstanding fingers and a centrally disposed pin on which is loosely mounted a clamping spring adapted to contact with said fingers so that, by depressing the spring on either side of the pin, said fingers will act as fulcrums and release the spring from engagement with the abrading material.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency.

In the accompanying drawing, in which similar numerals of reference indicate corresponding parts in all the figures,

Figure 1 is a perspective view of a combined cleaning and sanding tool constructed in accordance with the present invention.

Figure 2 is a vertical sectional view.

Figure 3 is an enlarged side elevation of one end of the bracket for supporting the clamping member.

The improved cleaning and polishing tool forming the subject-matter of the present invention comprises a holder 5 of any desired length and preferably substantially rectangular in shape, as shown, said holder having its lower surface provided with a yieldable pad 6 preferably formed of sponge rubber. The ends of the pad 6 are curved upwardly in the direction of the holder 5 so as to present rounded surfaces 7, while the lower surface of the pad is smooth and unobstructed and constitutes a polishing surface, indicated at 8.

Secured to the upper surface of the holder 5 by screws or similar fastening devices 9 is a bracket 10 having terminal upstanding fingers 11, the upper ends of which are preferably downwardly inclined in the direction of the adjacent ends of the holder 5, as indicated at 12. That portion of the bracket 10 between the fastening devices 9 is preferably pressed or bowed upwardly, at 13, to form a clearance between the bracket and the upper surface of the holder to accommodate the upset end of a pin 14, the upper end of which is provided with an enlarged head 15.

Loosely mounted on the pin 14 is a spring clamping member preferably in the form of an upwardly bowed leaf spring 16, the ends of which are deflected laterally, at 17, for frictional engagement with a strip of abrading material 18. This abrading material 18 may be formed of sand paper, emery paper, or any other desired material capable of removing spots or blemishes from the shells of eggs. The abrading member 18 is preferably in the form of a continuous strip folded upon itself with its opposite ends bent inwardly beneath the deflected portions 17 of the clamping member so that a double thickness of abrading material is provided. By shifting one ply of the material relative to the other, a fresh abrasive surface may be presented to the work when desired or necessary. It will be noted that the abrasive surface 18 bears directly against the pad 6 so as to form a yieldable surface for contact with the work and permit the abrasive surface to conform to the surface being cleaned or polished.

It will here be noted that the inclined ends 12 of the upstanding fingers 11 are normally spaced from the adjacent surface of the clamping spring so that the terminals of the clamping spring with frictionally engage the ends of the abrasive strip 18 and in which position they will be held until released by contact with the fingers.

In using the device, the abrasive strip 18 is positioned against the lower surface of the pad 6 and the opposite ends thereof folded inwardly, as best indicated in Figure 2 of the drawing. A slight downward pressure is then exerted on the clamping members at opposite sides of the pin 14 with the fingers of the hand which causes the spring to contact with the inclined ends 12 of the upstanding fingers 11 and thus elevate the deflected ends of the spring above the holder 5 so as to permit the bent ends of the abrasive strip to be inserted beneath the same. When the downward pressure is removed, the terminals of the spring will automatically clamp the abrasive strip and hold it in proper position during the cleaning operation. After the parts have been

assembled in the manner described, the tool or implement is rubbed over the shell of an egg so as to remove spots or other blemishes thereon prior to shipment. If it is desired to polish the shell of an egg, the abrasive strip **18** is removed, in which event the surface **8** of the pad may be used as a polishing member. When it is desired to give the shell of the egg a high polish, the surface **8** of the sponge rubber is covered with a strip of chamois or other soft material, the ends of which are secured to the holder by means of the clamping member in the manner previously stated. While the tool or implement is especially designed for removing spots or other blemishes from the shells of eggs, it will, of course, be understood that the tool may be used for other purposes with equally good results. It will also be understood that the tools or implements may be made in different sizes and shapes and constructed of any suitable material without departing from the spirit of the invention.

Having thus described the invention, what is claimed as new is:

1. A device of the class described comprising a holder having a pad secured to the lower surface thereof, a strip of abrading material extending over the pad and bearing against the top of the holder, a bracket secured to the top of the holder and provided with terminal upstanding fingers constituting fulcrums, a pin extending through the intermediate portion of the bracket, and a leaf spring loosely mounted on the pin and normally spaced vertically from the fingers, said spring having its opposite ends frictionally engaging the abrasive strip.

2. A device of the class described comprising a holder having a pad secured to the lower surface thereof, a strip of abrading material covering the pad and having its ends bearing against the upper surface of the holder, a bracket secured to the holder and having spaced upstanding terminal fingers, the upper ends of the fingers being inclined downwardly and constituting fulcrums, a pin projecting upwardly from the bracket between said fingers, and a clamping spring loosely mounted on the pin and normally spaced vertically from the inclined ends of the fingers, said spring having its opposite ends deflected laterally for frictional engagement with the abrading material.

3. A device of the class described comprising a holder, a pad secured to the lower surface of the holder, a strip of abrading material covering the pad and engaging the upper surface of the holder, a bracket secured to the top of the holder and having its intermediate portion bowed upwardly to provide a clearance between the holder and bracket, a pin projecting upwardly from the intermediate portion of the bracket and having its lower end provided with an upset portion seated in said clearance and its upper end formed with an enlarged head, fingers extending upwardly from the opposite ends of the bracket and constituting fulcrums, and a clamping spring loosely mounted on the pin in vertically spaced relation to the fingers and normally engaging said head, the ends of the spring being deflected laterally for frictional engagement with the strip of abrading material.

4. A device of the class described comprising a holder having a pad secured to the lower surface thereof, a strip of abrading material extending over the pad and engaging the upper surface of the holder, a bracket secured to the top of the holder and provided with upstanding fingers constituting fulcrums, a pin projecting upwardly from the central portion of the bracket and provided with an enlarged head, and an upwardly bowed spring bearing against the head and normally spaced from the fingers, the ends of the spring being deflected laterally for engagement with the abrasive strip whereby, when downward pressure is exerted on the spring at said pin, the spring will contact with the fingers and release the terminals of the spring from engagement with the abrading material.

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