Sept. 7, 1943. R. A. GOANS ET AL 2,328,972

LINT REMOVING APPARATUS

Filed Feb. 6, 1942 2 Sheets-Sheet 1

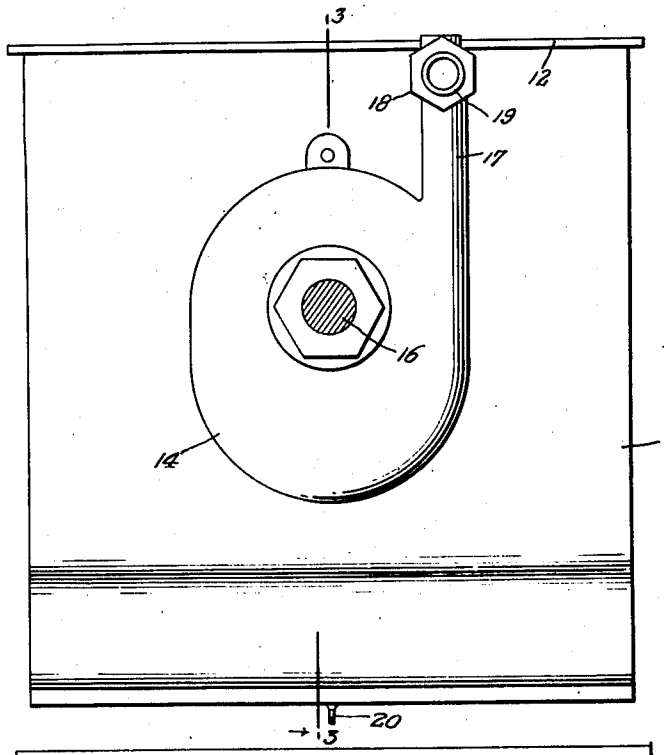


Fig. 1.

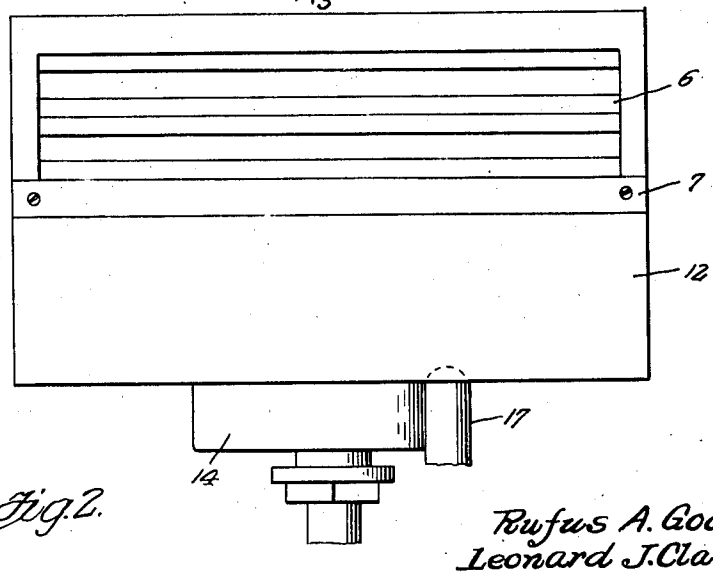


Fig. 2.

Inventor
Rufus A. Goans
Leonard J. Claiborne

By Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

Sept. 7, 1943. R. A. GOANS ET AL 2,328,972

LINT REMOVING APPARATUS

Filed Feb. 6, 1942 2 Sheets-Sheet 2

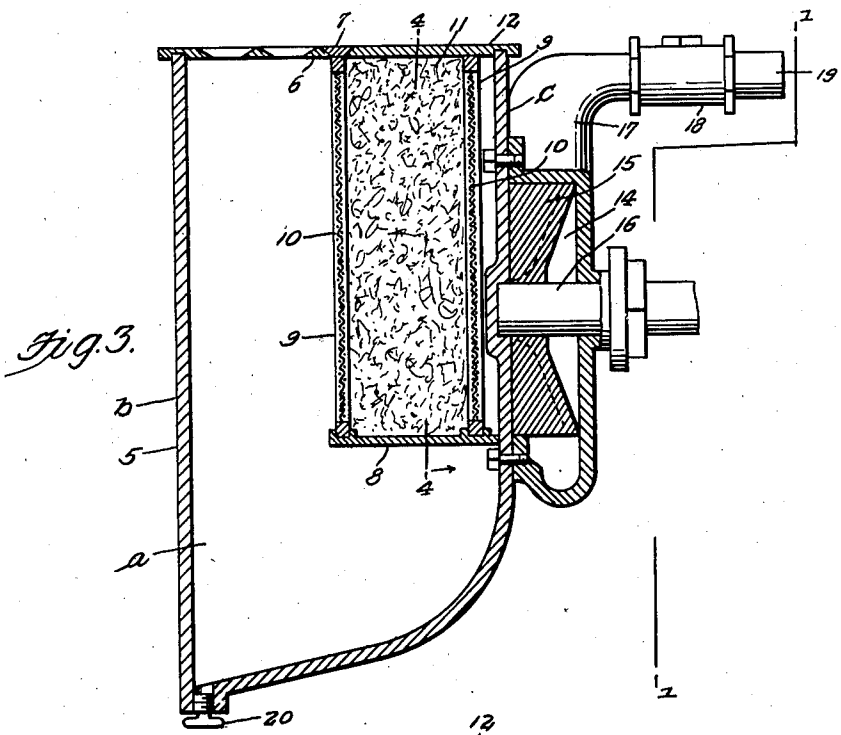


Fig. 3.

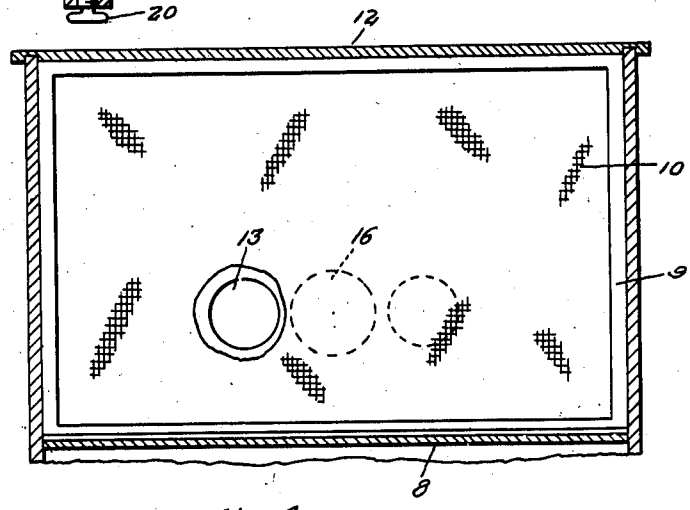


Fig. 4.

Inventor

Rufus A. Goans
Leonard J. Claiborne

By Clarence A. O'Brien
and Harvey B. Jacobson
Attorneys

Patented Sept. 7, 1943

2,328,972

UNITED STATES PATENT OFFICE

2,328,972

LINT REMOVING APPARATUS

Rufus A. Goans and Leonard J. Claiborne, Twin Falls, Idaho

Application February 6, 1942, Serial No. 429,816

1 Claim. (Cl. 210—131)

This invention relates to new and useful improvements in apparatus for removing lint during the operation of washing clothes by washing machinery.

The principal object of the present invention is to provide a lint removing device for attachment to a washing machine for the purpose of removing lint from washing water so that it will not be left on the clothes.

Other objects and advantages of the invention will become apparent to the reader of the following description.

In the drawings:

Figure 1 represents a sectional view taken substantially on line 1—1 of Figure 3.

Figure 2 is a top plan view.

Figure 3 is a vertical sectional view on line 3—3 of Figure 1.

Figure 4 is a fragmentary sectional view taken substantially on line 4—4 of Figure 3.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 denotes a substantially deep box structure having a substantial half-portion of its top in the form of a grill 6 which meets a center strip 7 bridging the side portions of the box 5. This grill 6 defines an inlet for wash water, it being preferable that the apparatus underlie and be suitably secured to the bottom of a washing machine.

The box 5 is made up of side walls A, A, a front wall B, and a rear wall C. Projecting inwardly from the rear wall C is a shelf 8 from which rises a pair of frames 9, 9 each having a foraminous filler sheet 10, so that water may pass therethrough. A suitable filter material 11 is packed in the space between the frames 9, 9, and this may be removed and replenished whenever desired by removing a removable closure 12 which overlies this space.

The back wall C has an opening 13 therein through which water can pass after passing through the filtering material 11 to reach a suction box 14 in which a suction fan 15 operates, this fan being carried by a drive shaft 16. A take-off pipe 17 extends from the suction box 14 and may have a cut-off valve 18 therein. Numeral 19 denotes a return pipe to the washing machine.

A drain plug 20 is provided for the bottom of the box 5.

It can now be seen that with the suction fan 15 operating, water will be circulated from the washing tub (not shown) through the box 5 and the pipe line 19 back to the washing machine, this water passing through the filtering material 11 so that all lint and other foreign matter is removed from the water.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

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

A filtering device for attachment to the bottom of a washing machine comprising a narrow deep box having side walls and a flat top adapted to be opposed to said bottom, substantially one-half of said top from one side wall to the center of the top being a grill through which water from the washing machine may drain into said box, the other half of said top to the other side wall being a removable cover, a shelf in said box extending from said other side wall between the bottom of the box and said cover, a pair of filter frames arising from said shelf to the top of the box and forming therebetween a filter chamber closed at the top thereof by said cover, filtering material in said chamber, said other side wall having an outlet opening therein opposite said frames, and a suction pump on the outer face of said other side wall with which said opening communicates and including a suction fan.

LEONARD J. CLAIBORNE.
RUFUS A. GOANS.