

March 12, 1935.

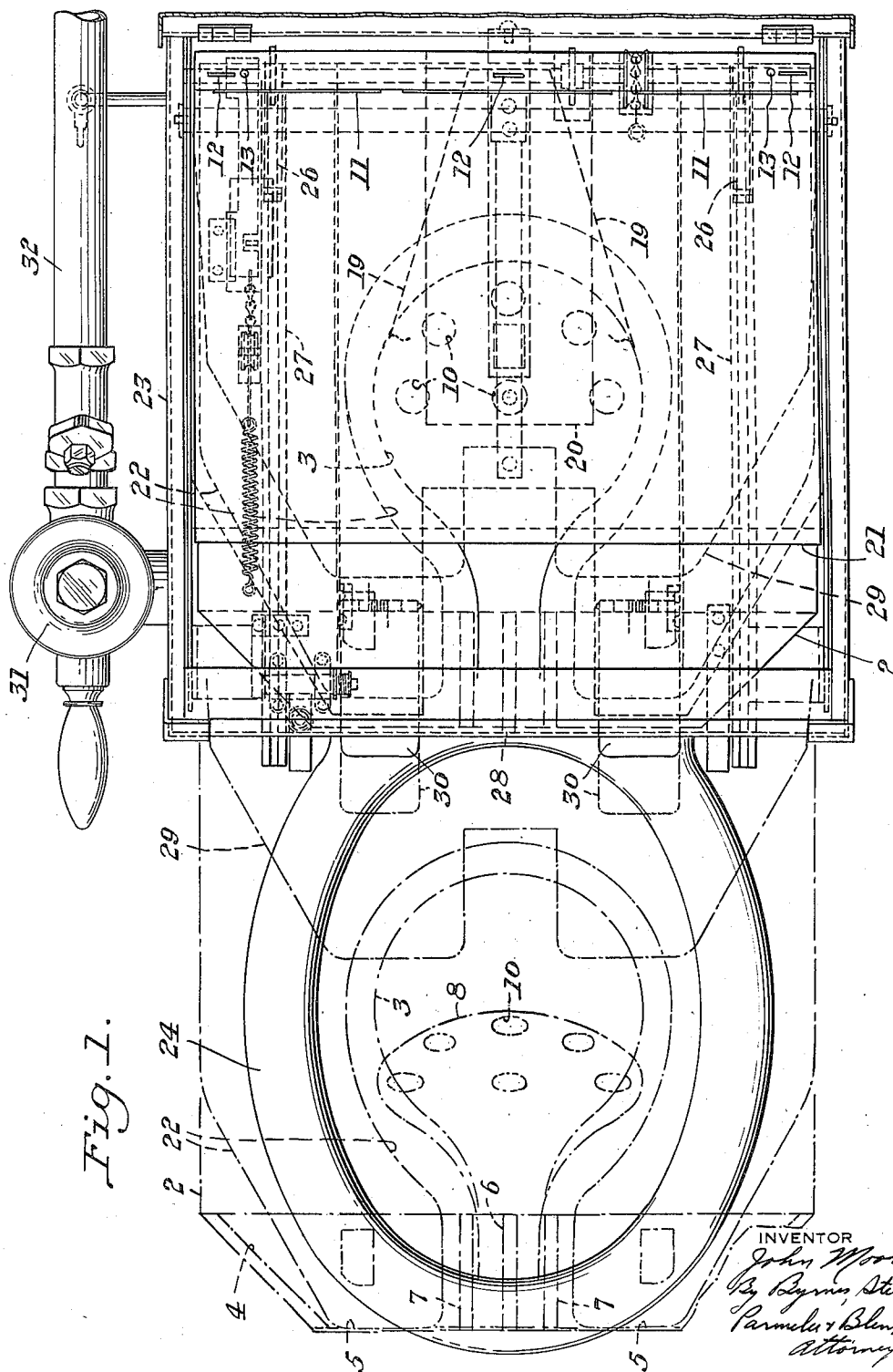
J. MOORE

1,994,285

TOILET SEAT COVER

Filed Feb. 18, 1931

2 Sheets-Sheet 1



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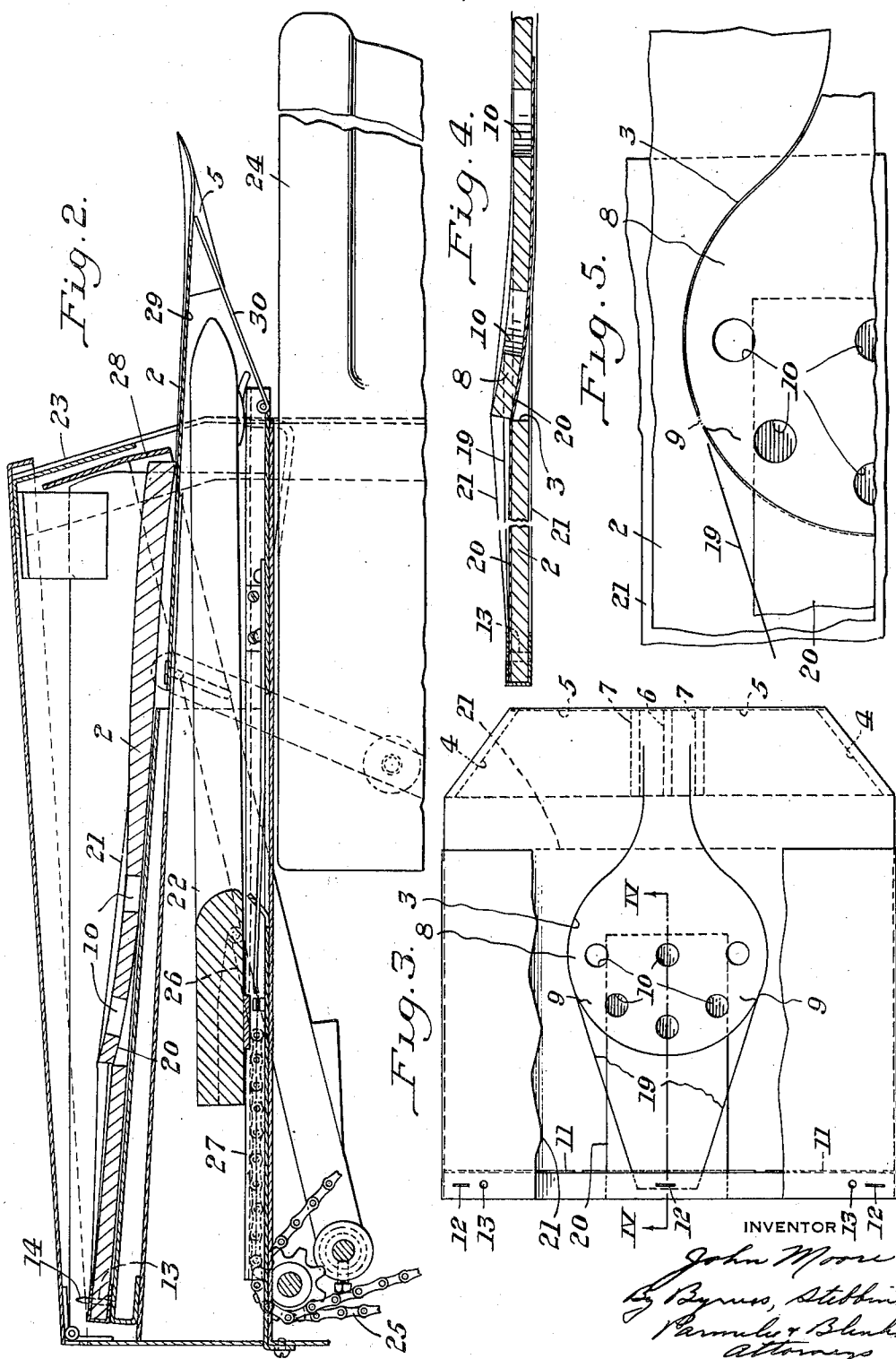
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2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE

1,994,285

TOILET SEAT COVER

John Moore, Latrobe, Pa.

Application February 18, 1931, Serial No. 516,592

1 Claim. (Cl. 4-243)

This invention relates generally to sanitary seat covers adapted for use on the ordinary water closet, and more particularly to sanitary seat covers adapted for use in connection with toilet apparatus wherein the seat is movable from a non-usable position adjacent the toilet bowl to a usable position over the bowl, such as shown in my copending application for United States Letters Patent, Serial No. 512,059, filed January 29, 1931.

The improved toilet seat cover which I provide by my invention is made of flexible material, has a centrally disposed opening therein, a flap of flexible material in the opening integrally attached to the main sheet at the front end thereof and attached to the sides of the sheet by destructible connections, and pockets on the front end of the main sheet and on the bottom sides thereof adapted to receive the seat. The flap is provided with a plurality of openings which aid in discharging the seat cover after use thereof.

By my invention I further provide a pad of such covers having means attached thereto for breaking the destructible connections between the flap and body of each sheet as the sheet is removed from the pad. I also provide in connection with the pad, means for raising the rear or loose end of the flaps of the covers above the general plane of the covers.

In the accompanying drawings, I have shown for purposes of illustration only, a preferred embodiment of my invention. I have also shown a portion of the apparatus shown and described in my above referred to copending application in connection with which my improved covers may be used.

In the drawings—

Figure 1 is a plan view of the apparatus shown and described in my above referred to copending application showing a pad of the covers which I provide in place in the paper magazine, the seat and a cover thereon being also shown in dot-dash line in usable position over the bowl. The plate used for ejecting the covers is also shown in advanced position in dot-dash lines.

Figure 2 is a partial sectional view through the center of the seat cabinet and paper magazine of the apparatus shown in Figure 1 showing a pad of the covers which I provide, in section.

Figure 3 is a plan view of a pad of the covers which I provide, the surrounding waxed paper cover for the pad being partially broken away,

along the line IV—IV of Figure 3, the sheet of paper used for raising the rear end of the flaps above the general plane of the pad being enlarged to a greater extent than the balance of the pad, and

Figure 5 is an enlarged partial plan view of a pad of covers, the string adapted to sever the breakable connections between the flaps and the main bodies of the covers being partially broken away.

Each cover as shown in the drawings comprises a main body portion 2 having an opening 3 therein. The front part of the main body of the cover is cut away and turned rearwardly under the cover and the edges 4 glued or pasted together so as to form a pocket 5 on the bottom of the cover and extending transversely thereof. The pocket may be glued near the center as at 6 and 7 in order to divide it into two pockets.

A flap 8 is integrally attached to the body of the sheet at the front end thereof and extends rearwardly into the opening 3. The flap 8 is attached to the main body of the sheet by means of breakable or destructible connections 9 which serve to hold the flap in the plane of the body portion. The flap 8 has a plurality of openings 10 therein which aid in the disposition of the cover after use, in the manner hereinafter described.

The pads of covers which I provide for use in the structure shown in my copending application, Serial No. 512,059, filed January 29, 1931, are made up of a plurality of covers of the character just described. Each cover is perforated along the line 11. The covers are fastened together by means of staples 12 which fasten together the portions of the covers to the rear of the perforated lines. This portion of each of the covers has an opening 13 therein which corresponds with similar openings in the other covers, which openings are adapted to receive pins 14 of the dispensing apparatus and hold the pad of covers in the dispensing apparatus.

A string 19 is attached at the rear of the pad of covers and each end thereof is looped around the breakable connections 9 on each side of the flaps of the covers and fastened. The string or thread 19 serves to sever the breakable connections 9 between the flap and the main body of a sheet as the sheet is removed from the pad of covers.

A sheet 20 of flexible material is fastened to the rear of the pad of covers and extends forwardly and is placed under the rear of the

flaps in order to raise them above the general plane of the pad. This serves to prevent the flaps from tending to curl up as a cover is removed from the pad. The pad is further
 5 provided with a sheet of waxed paper 21 which surrounds a portion of the pad. This waxed paper serves to lubricate the lowermost cover of the pad as it is removed from the pad and prevent it from sticking and tearing in the com-
 10 partment in which the covers are retained.

Pads of covers of the above described character may be advantageously used in the apparatus such as that partially shown in Figures 1 and 2 and more particularly shown and de-
 15 scribed in my above referred to copending application. In such apparatus the seat 22 is normally retained in a cabinet 23. Means is also provided in the cabinet 23 for moving the seat from the cabinet to a usable position over the
 20 bowl 24 which is located adjacent the cabinet. This movement of the seat is effected by motors which are adapted to drive sprocket chains 25 which are connected to the seat by links 26. Link guides 27 are provided for preventing the
 25 chains from buckling as the seat is moved forward. As the seat is moved forward the door 28 of the cabinet is opened. The ejector plate 29 which is located immediately under the pad of covers, advances and as it does so, engages
 30 the pockets 5 of the lowermost cover in the pad and pulls it forward with it. As the cover is pulled forward the strings 19 sever the breakable connections 9 between the flap 8 and the main
 35 body of the cover. A finger plate 30 is also moved forward by the movement of the seat and is adapted to open the pockets of the cover pulled forward by the ejector plate. As the seat 22 advances to usable position over the bowl, it enters the pockets 5 of the cover and
 40 pulls the cover forward with it. The balance of the covers in the pad aid in smoothing the lowermost cover on the seat as it advances to usable position.

The breakable connections between the flap and the main body of the cover having been broken by the thread 19, the flap drops from the plane of the cover into the toilet bowl and rests therein. After use, the seat 22 is automati-
 5 cally withdrawn into the cabinet. As it moves rearwardly, the flush valve 31 which is connected to a supply line 32 is operated and flushes the bowl. The flap 8 resting in the bowl serves to pull the seat cover from the seat as the bowl
 10 is flushed. The openings 10 in the flap prevent the flap from riding on the flushing waters and materially aid in removing the cover from the seat.

As may readily be seen, seat covers of the
 15 character above described and pads of the same arranged in the manner above described, may be advantageously used in toilet apparatus of the character shown in detail in my copending application.

While I have shown and described a preferred
 20 embodiment of my invention, it is to be understood that it is not to be limited thereby, but may be otherwise embodied within the scope of the following claim.

I claim:

A toilet seat cover comprising a main sheet
 25 of flexible material having a centrally disposed opening therein, a flap of like material in said opening integrally attached to the main sheet at the front end thereof and by breakable con-
 30 nections on each side only, the remaining portion of the flap being free of the main sheet, said flap having a plurality of openings therein for cooperation with the water in the toilet
 35 bowl for aiding removal of the sheet when placed thereon, and a pocket on the front end of the main sheet extending transversely along the bottom side thereof.

JOHN MOORE.