June 24, 1930. G. F. KAHL 1,767,930

ADJUSTABLE VENTILATING TOILET SEAT

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Fig. 1.

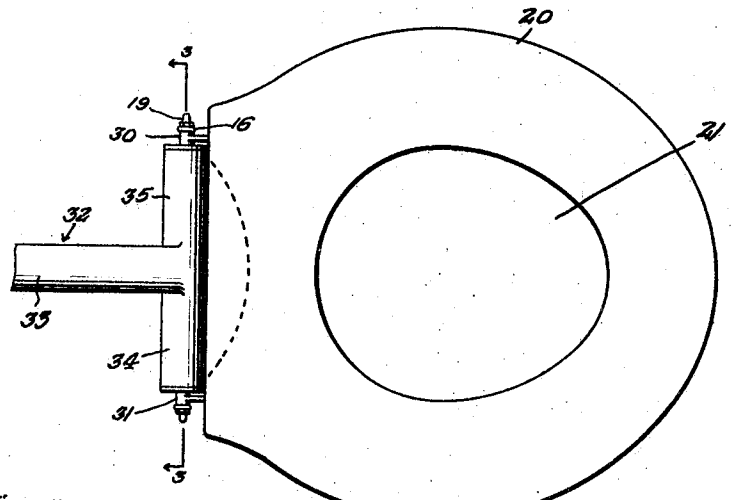


Fig. 3.

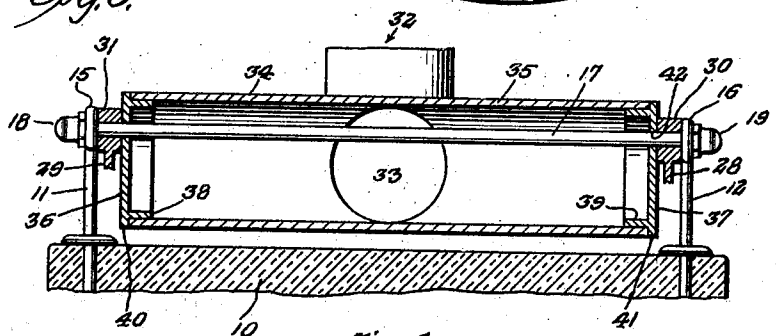
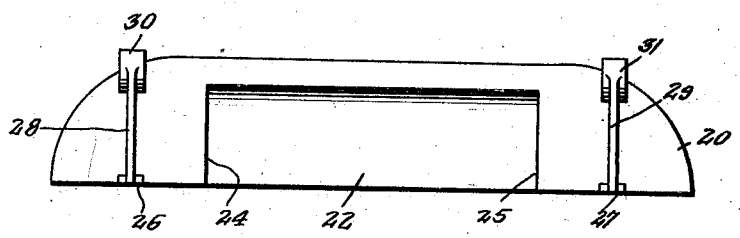


Fig. 4.



Inventor
George F. Kahl,

By Clarence A. O'Brien
Attorney

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Fig. 2.

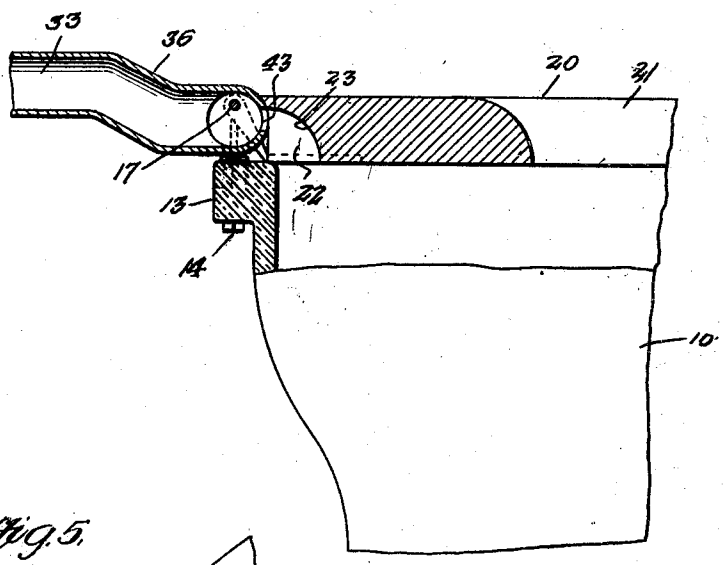


Fig. 5.

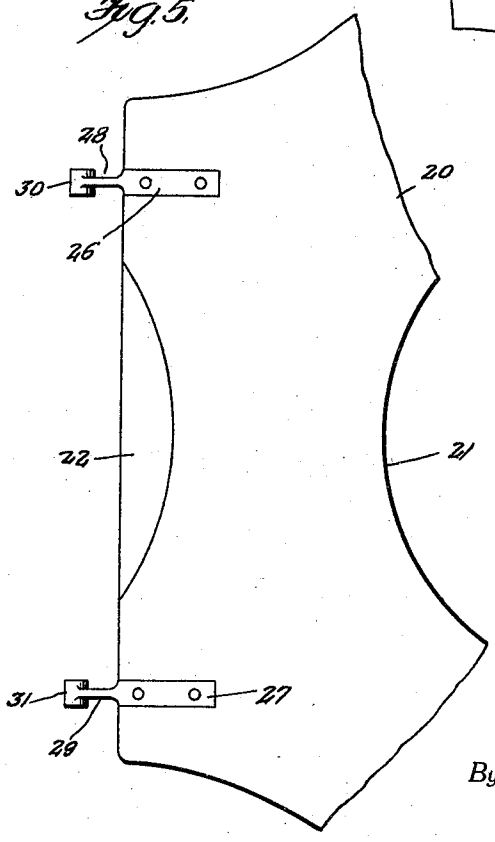
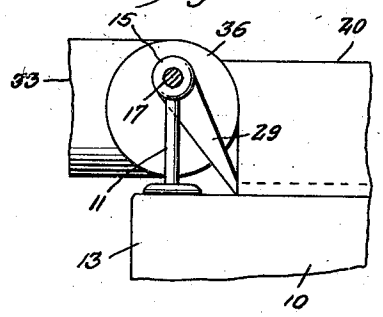


Fig. 6.



Inventor
George F. Kahl,

By Clarence A. O'Brien
Attorney

Patented June 24, 1930 1,767,930

UNITED STATES PATENT OFFICE

GEORGE F. KAHL, OF VINCENNES, INDIANA

ADJUSTABLE VENTILATING TOILET SEAT

Application filed May 7, 1929. Serial No. 361,109.

This invention relates to toilets and an object of the invention is to provide for the carrying away the fumes from a toilet while in use, and at the same time providing a hinge that cooperates with the transfer of the fumes to the vent pipe of the plumbing system in the building, and furthermore the device will provide for ventilating the bathroom when not in use.

Another object of the invention is to provide for adjusting the fume conducting hinge so as to meet the varying connection on the vent pipe of the building.

Further objects of the invention are to provide, in a manner as hereinafter set forth, a device of the character referred to, which is strong, compact and durable, thoroughly reliable in its operation, adaptable to connection to the standard toilet bowls, very efficient in its intended use without detracting from the appearance of the bathroom, and comparatively inexpensive to manufacture and install.

With the foregoing and other objects in view, the invention consists in the novel construction, combination and arrangement of parts, as will be hereinafter more specifically described and illustrated in the accompanying drawings wherein is disclosed an embodiment of the invention, but it is to be understood that changes, variations and modifications may be resorted to without departing from the spirit of the claims hereunto appended.

In the drawings wherein like reference characters designate corresponding parts throughout the several views;

Figure 1 is a top plan view of the device in accordance with this invention,

Figure 2 is a fragmentary side elevation, partly in section of a toilet bowl illustrating in longitudinal detailed section an adaptation therewith of the device in accordance with this invention,

Figure 3 is a transverse detailed sectional view taken substantially on line 3—3 of Figure 1,

Figure 4 is a rear end view of the toilet seat, detached from the bowl,

Figure 5 is an enlarged fragmentary bottom plan view of the rear end of the toilet seat, and

Figure 6 is a fragmentary side elevation in proximity to the inner end of the toilet bowl illustrating in side elevation in proximity to the inner end of a toilet bowl illustrating in side elevation the connection of the parts in accordance with this invention.

Referring to the drawings in detail, 10 indicates the rear end of the conventional toilet bowl having a pair of vertically disposed supporting rods 11, 12 anchored to the rear flange 13 in spaced transverse relation by means of nuts 14 secured to the inner ends of the support.

The upper ends of the rod support are in spaced relation to the top of the bowl and are formed with a pair of eyelets 15, 16 in alinement with each other. A long bolt 17 is supported between the eyelets 15, 16 and is rigidly secured therebetween by means of rosette nuts 18, 19 threadedly mounted on the end of the bolt extending through the eyelet.

The nuts 18, 19 abut against the outer face of the eyelet 15, 16 thereby the bolt 17 is rigidly secured between the eyelets.

A conventional toilet seat is supported upon the toilet bowl 10 and is indicated at 20. The toilet seat is formed with the conventional opening 21 in the center thereof and at the rear inner corner is cutaway to form a transversely extending pocket 22 which opens at its lower end in communication with the interior of the bowl and is formed with an arcuate inner wall 23 and side walls 24, 25 in spaced relation to the opposite sides of the toilet seat.

The pocket 22 carries away in a manner to be presently described, the fumes from the interior of the toilet bowl 10. One end of a pair of hinge brackets are countersunk as at 26, 27 and secured to the inner face at the rear of the toilet seat 20. The brackets are formed with rearwardly projecting arms 28, 29 formed at their outer ends with a pair of sleeves 30, 31 which are in alinement and are rotatably mounted on the bolt 17 adjacent the eyelets 15, 16.

A T-shaped hollow conductor indicated generally at 32 is formed of a hollow stem 33, the outer end of which is adapted to be con-

nected to the vent pipe of the plumbing system not shown in the drawings. The oppositely disposed legs 34, 35 are disposed transversely of the rear end of the seat and of course the hollow interior communicates with the hollow interior of the stem 33, to form a continuous passage to the vent pipe.

The stems and legs of the T-shaped conductor are tubular and may be formed of any desired metallic material that is not foraminous and will present a pleasing appearance to the bathroom. It will be noted that the stem 33 is offset as at 36 to provide clearance and permit easy working conditions when connecting the stem to the vent pipe.

The opposite, free open end of the legs 34, 35, closed by means of a pair of annular caps 36, 37 frictionally held in place on the end thereof by inwardly projecting annular flanges 38, 39 abutting the inner walls of the legs and the flanges merge with outwardly directed annular lips 40, 41 which overlap and abut against the outer edges of the legs 34, 35 whereby the cap may be rotated within the hollow legs.

The bolt 17 extends through the legs 34, 35 eccentric with respect to the axis of the legs and through openings 42 eccentric with respect to the caps 36, 37. The caps are free to rotate on the bolt 17 and by turning the caps the conductor 32 is raised, lowered or moved forwardly or rearwardly by reason of the eccentric mounting on the bolt 17.

The inner face of the legs 34, 35 are provided with a transversely extending slot 43 which communicates with the interior of the bowl 10 through the pocket 22 whereby the fumes are carried from the bowl to the conductor and out through the vent pipe of the plumbing system.

Having thus described my invention, what I claim as new is:

1. In combination with a toilet bowl, a seat having a pocket on its rear inner corner, a pair of spaced supports anchored in the rear of the bowl, a pair of brackets secured to the rear of the seat, a T-shaped hollow conductor having a slot across its length in communication with said pocket and adapted to be connected at the end of the stem to the vent pipe of a plumbing system, a pair of caps rotatably mounted in opposite end of the legs of the conductor, a bolt rigidly secured to the support, and rotatably connected and extending through said brackets, legs and caps, said caps rotatably mounted on said bolt eccentrically thereof to provide for adjusting said conductor to meet varying vent pipe connections.

2. In combination with a toilet bowl, a seat having a pocket on its rear inner corner, a pair of spaced supports anchored in the rear of the bowl, a pair of brackets secured to the rear of the seat, a T-shaped hollow conductor having a slot across its length in communication with said pocket and adapted to be connected at the end of the stem to the vent pipe of a plumbing system, a pair of caps rotatably mounted in opposite end of the legs of the conductor, a bolt rigidly secured to the support, and rotatably connected and extending through said brackets, legs and caps, said caps rotatably mounted on said bolt eccentrically thereof to provide for adjusting said conductor to meet varying vent pipe connections, said pockets having the ends thereof in spaced relations to the sides of the seat.

In testimony whereof I affix my signature.

GEORGE F. KAHL.