

1,276,265.

B. PURNELL.
CLOSET SEAT PIVOT.
APPLICATION FILED FEB. 1, 1918.

Patented Aug. 20, 1918.
2 SHEETS—SHEET 1.

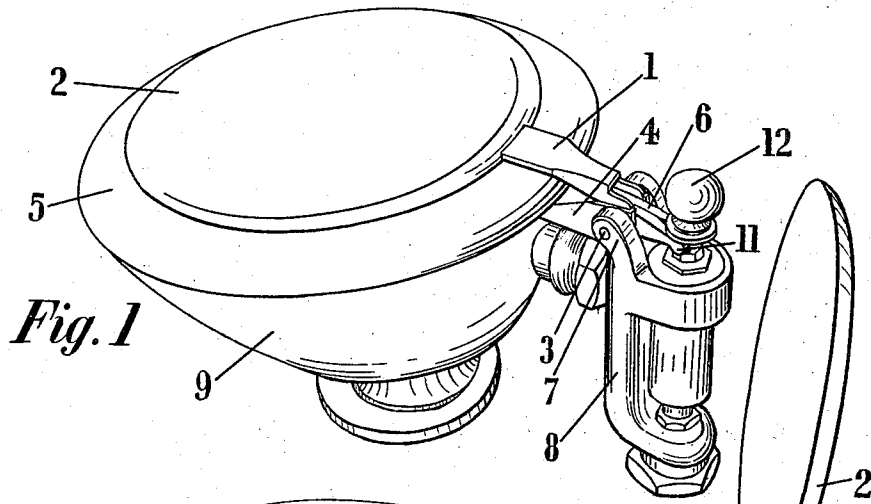


Fig. 1

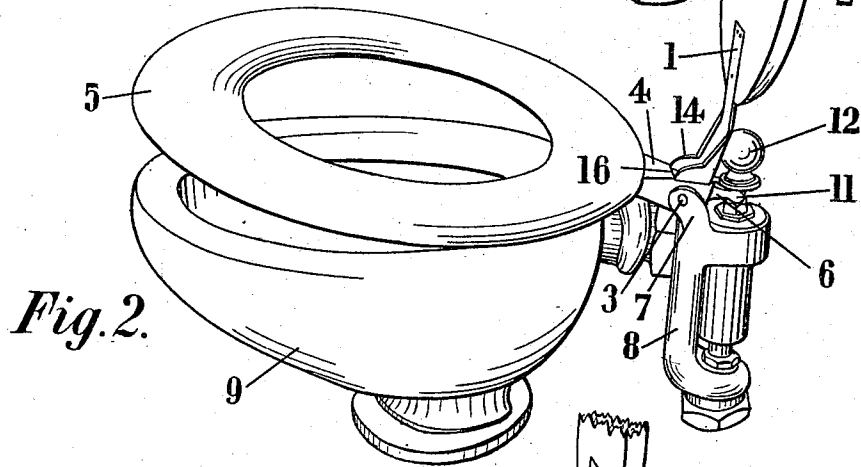


Fig. 2

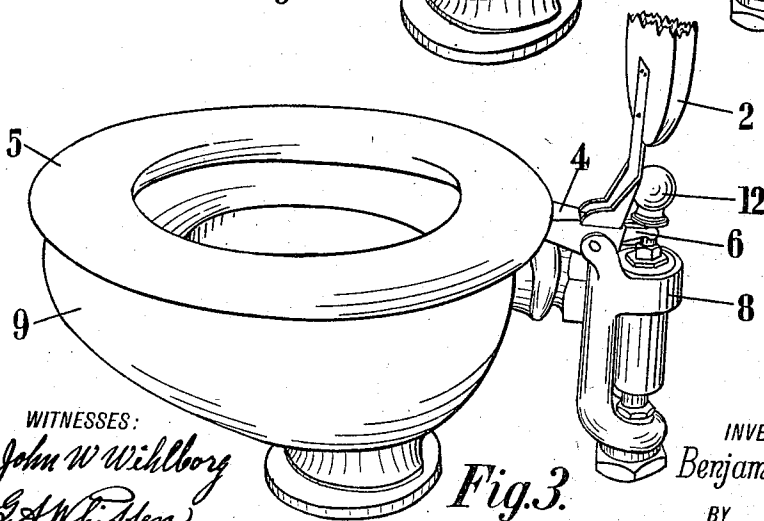


Fig. 3

WITNESSES:
John W. Wihlborg
E. A. Whiffen

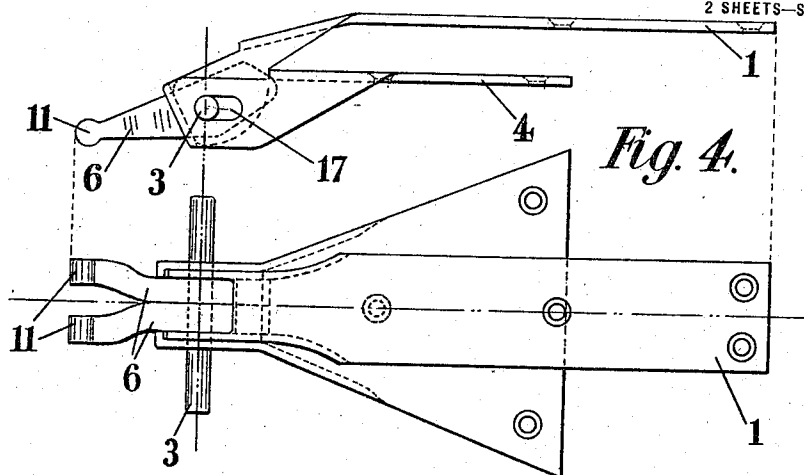
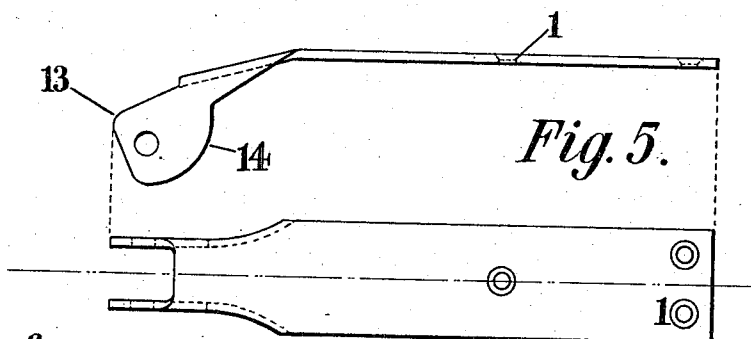
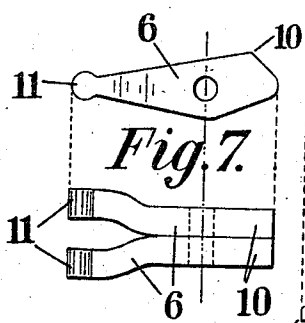
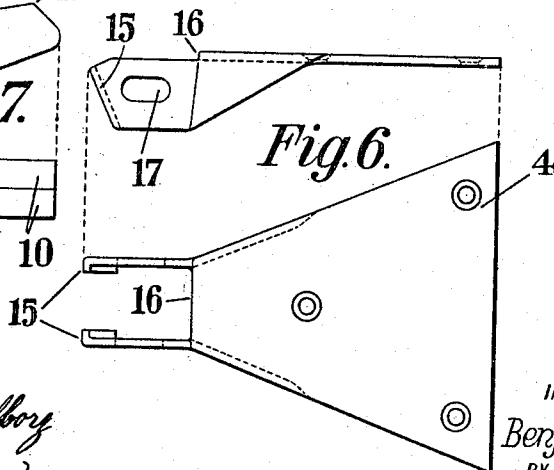
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UNITED STATES PATENT OFFICE.

BENJAMIN PURNELL, OF BENTON HARBOR, MICHIGAN.

CLOSET-SEAT PIVOT.

1,276,265.

Specification of Letters Patent. Patented Aug. 20, 1918.

Application filed February 1, 1918. Serial No. 214,864.

To all whom it may concern:

Be it known that I, BENJAMIN PURNELL, a citizen of the United States, residing at Benton Harbor, in the county of Berrien and State of Michigan, have invented a certain new and useful Closet-Seat Pivot; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention is adapted to pivotally attach a closet seat and cover to a valve operating mechanism, and such suitable valve operating mechanism is made the subject matter of the application No. 208,642.

The objects of my invention are, first, to provide a means whereby a valve controlling mechanism will be automatically "set" by a person sitting on said seat when said cover is in a raised position and said valve controlling mechanism released when said person arises; and, second, to so proportion and arrange said seat and cover pivots that when said cover is in its lowered position, said seat will rest on a bowl and a person may sit upon said cover without setting said valve controlling mechanism.

I attain these objects by the mechanism illustrated in the accompanying drawings in which—

Figure 1 is a perspective view of the device with the cover lowered; Fig. 2, with the cover raised and the seat inclined; Fig. 3, with the seat depressed, the cover being raised; Fig. 4, a side and plan view of the pivoting device with the parts in the relative position shown in Fig. 1; Figs. 5, 6 and 7, views of the cover hinge, the seat hinge and the setting lever respectively.

Similar numerals refer to similar parts throughout the several views.

The hinge 1, attached to the cover 2 is pivoted on the pin 3, and hinge 4 attached to the seat 5 is likewise pivoted, as is also the twin setting lever 6. The pin 3 is fixed in ears 7 of the body 8 and this body is attached to a closet bowl 9. The lever 6 has a lug 10 to engage the hinge 4 and knob 11, or an enlargement on the end of lever 6 opposite said lug 10 to engage the nut 12 of a valve controlling mechanism 8. The cover hinge 1 has cams 13 and 14 to engage the

flanges 15 and the edge 16 respectively of the seat hinge 4. The seat hinge 4 has its pivotal openings 17 enlarged to admit of lateral movement of said hinge relative to said pivot.

The operation of the device is explained as follows:—The device in its initial position as shown in Fig. 1 may be used as an ordinary seat, the closet seat 5 resting on the bowl 9 and the cover 2 in turn resting on said closet seat. A person desiring to use the water closet must necessarily raise the cover 2, which automatically slightly raises seat 5 by the cams 13 against the flanges 15 which exerts a lateral pressure on seat 5 and draws the edge 16 of the seat hinge 4 upward along the incline and on top of the lug 10 of lever 6. When this is done the said lug engages the said hinge edge 16, and a downward pressure on said seat as by a person sitting thereon will swing it downward about its pivot 3 and will swing the engaged lever 6 upward, thereby lifting the nut 12 and "setting" the valve operating mechanism 8. When said person arises from said seat the lifting pressure on nut 12 (except that due to the weight of said seat) is released, allowing it to operate to flush the closet as described in my application No. 208,642. The cover 2 may now be lowered and such action will swing the seat 5 back down upon the bowl 9 and disengage it from the lever 6 by the cam 14 pushing the edge 16 of hinge 4 off of the lug 10. This brings the mechanism to its initial position, with the seat 4 disengaged from the lever 6 and the said seat resting on bowl 9 with its cover 2 in turn resting on it, when the device may be used as an ordinary seat.

It will be seen that the device is entirely automatic, for it is impossible to sit upon seat 4 when the cover 2 is raised without setting the flushing mechanism, and that it is impossible to set said mechanism when said cover is lowered. Further it will be noted that raising the cover 2 automatically elevates seat 4 and engages it with the flushing mechanism, and lowering said cover automatically lowers said seat and disengages it from the flushing mechanism.

It is seen from the foregoing that the device is operative without the volition of the occupant. It will also be noted that the parts

are made of metal stampings, which are conducive to rapid and economical manufacture.

I claim,

- 5 In a closet seat pivot, a cover pivoted on a fixed pin, a seat hinge pivoted on said pin by means of a laterally disposed slot, a setting lever pivoted on said pin, shoulders on the front end of said setting
10 lever, a transverse member of said seat hinge for positive engagement or disengagement

with said shoulder, cams on the back portion of said cover hinge, and internal cam surfaces on said seat hinge for engagement of said cover hinge cams.

15

In testimony whereof, I affix my signature, in presence of two witnesses.

BENJAMIN PURNELL.

Witnesses:

JOHN W. WEHLBORG,
FRANCIS THORPE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."