F. B. CONNOR.

TOILET SEAT.

APPLICATION FILED MAY 10, 1919.

1,359,873.

Patented Nov. 23, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

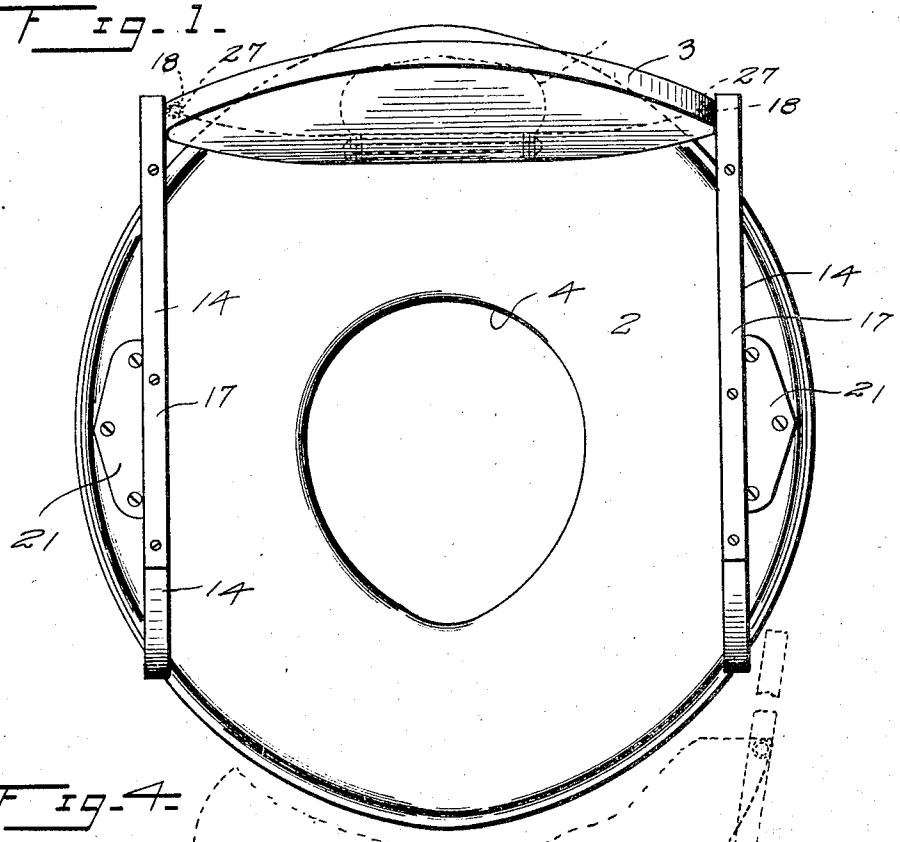


Fig. 4.

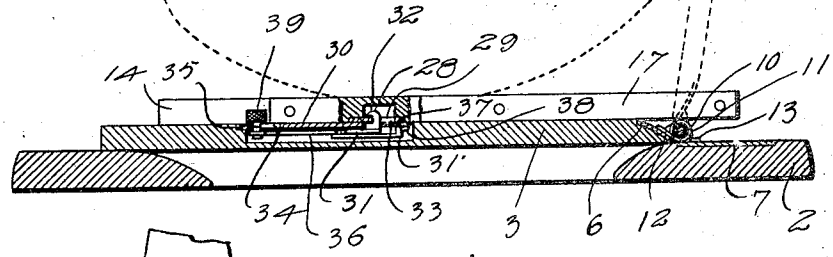
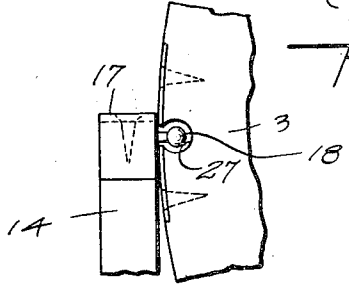


Fig. 6.



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2 SHEETS—SHEET 2.

Fig. 2.

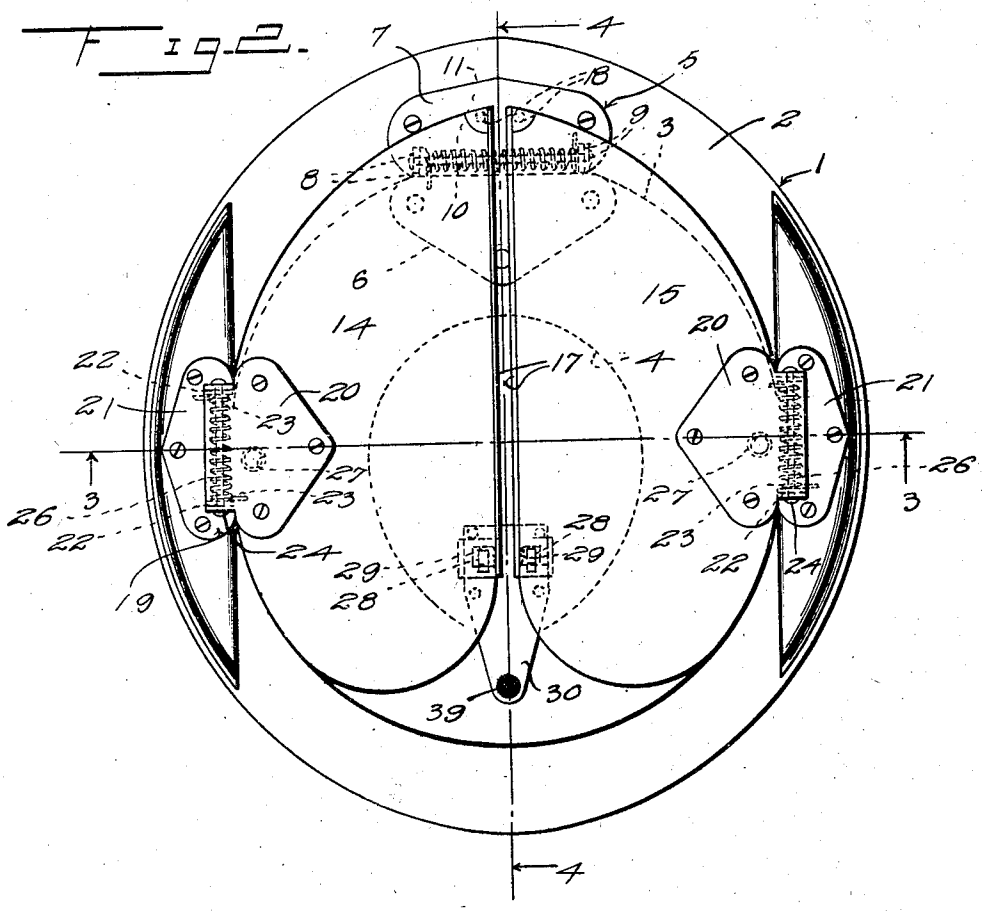


Fig. 3.

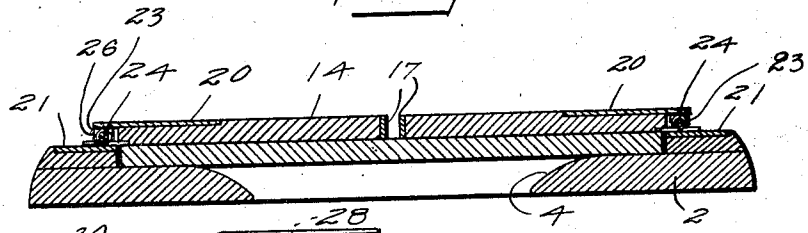
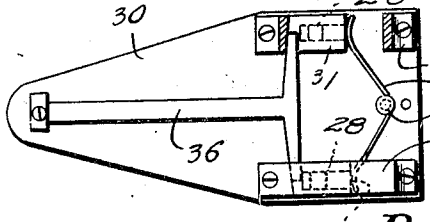


Fig. 5.



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UNITED STATES PATENT OFFICE.

FRANK B. CONNOR, OF ITHACA, NEW YORK.

TOILET-SEAT.

1,359,873. Specification of Letters Patent. Patented Nov. 23, 1920.

Application filed May 10, 1919. Serial No. 296,076.

To all whom it may concern:

Be it known that I, FRANK B. CONNOR, a citizen of the United States, residing at Ithaca, in the county of Tompkins and State of New York, have invented certain new and useful Improvements in Toilet-Seats; 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.

This invention relates to toilet seats and the primary object of the invention is to provide an improved child's folding toilet seat having collapsible back and sides which are adapted to fold one upon the other, so as to present a flat appearance.

Another object of the invention is to provide an improved toilet seat embodying a folding back and sides which are so arranged with relation to the seat portion, that by releasing a catch the same will automatically open and be ready for use.

A further object of the invention is to provide an improved toilet seat embodying spring actuated hinged back and side portions, which are adapted to be held in closed position by spring catches, whereby when said catches are released, the back and sides will automatically open into operative position.

A still further object of the invention is to provide an improved device of the above character, which is durable and efficient in use, one that is simple and easy to manufacture, and one that can be placed upon the market at a reasonable cost.

With these and other objects in view the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described, claimed and illustrated in the accompanying drawings, forming a part thereof, in which:

Figure 1 is a plan view of the improved seat showing the back and sides in raised position,

Fig. 2 is a similar view showing the back and sides in folded position,

Fig. 3 is a cross section taken on the line 3—3 of Fig. 2,

Fig. 4 is a section taken on the line 4—4 of Fig. 2,

Fig. 5 is a detail view partly in section of the latch, and

Fig. 6 is a fragmentary front elevation of the seat showing the means of connecting the sides and back.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the numeral 1 generally indicates the improved device, which includes the ordinary toilet seat 2, having a back or cover 3 hingedly connected thereto at the rear portion thereof and this cover or back is adapted to cover the aperture 4 in the seat 2, as is usual in the ordinary construction. The back 3 is hingedly connected to the seat 2, by means of a spring hinge 5 which includes the leaves 6 and 7, secured by screws or other suitable fastening elements to the back and seat, respectively, and each of the leaves carry ears 8 and 9, which are provided with alined apertures to receive the pivot pin 10 around which is coiled the spring 11, having one terminal thereof engaging the leaf 6 as at 12, and the opposite terminal engaging the leaf 7 as at 13, so that the spring will normally tend to raise the back 3.

Hingedly secured to the seat on each side of the cover 3 are the side members 14 and 15, which have straight parallel inner edges which are braced by suitable strips of metal 17 and the rear edges of the strips carry inwardly extending headed lugs 18, for a purpose which will hereinafter more fully appear. The side edges of the side members 14 and 15 are suitably curved to present a pleasing appearance to the eye. The side members 14 and 15 are connected to the seat by means of spring hinges 19, each of which includes leaves 20 and 21 which are secured respectively to the side edges of the side members and sides of the seat. The leaf 21 is provided with upstanding apertured lugs 22, which receive the rearwardly extending apertured lugs 23 carried by the leaf 20 and a suitable pivot pin 24 extends through the ears and a spring 26 is coiled around the pin and has one end of the same engaging under the side member and the opposite end engaging the upper surface of the leaf 21, and this spring normally tends to raise the side members to upstanding position.

The cover 3 adjacent the central portion of the side edges thereof is provided with an inwardly extending recess 27, which when the back and sides are in raised position come in direct alinement with the hooks or headed lugs 18, and the headed lugs are

adapted to engage in the recesses 27 and hold the back against rearward movement and securely lock the back and sides together. The upper surface of the cover 3 at the central portion thereof carries spring actuated catches 28, which are adapted to engage keepers 29 carried by the lower surfaces of the side members at the inner sides thereof. The spring actuated catches 28 are held in place by cover plates 30 and the top surface of the cover 3 is recessed to receive the same and the catches. A pair of spaced U-shaped guides are secured to the under surface of the plates 30 and slidably receive the bases 31 of the catches 28, the hooked ends 32 of which extend through slots 33 in the base plate. The forward edge of the base plate or cover plate 30 is provided with a slot 34 through which slidably extends a lug 35 carried by the upper surface of the T-shaped actuating member 36, the terminals of the arms of which are disposed in the guides and engage the forward ends of the bases 31 of the catches. The catches are normally held in their forward position by means of the leaf spring 37, which has the intermediate portion thereof coiled around a pin 38 carried by the base plate and the terminals engaging the rear ends of the catches. The upstanding lug is provided with the thumb piece 39, by means of which the actuating member may be forced rearwardly so as to move the catches against the tension of the spring and out of engagement with the keepers 29, so as to permit the spring hinges to throw the sides outward and thus release the back 3 and permit the same to be thrown by its spring hinges to its raised position.

From the foregoing description it can be seen that an improved toilet seat is provided having a back and sides which will be automatically raised to open position upon releasing of the catches holding the same in closed position.

In practice, I have found that the form of my invention illustrated in the accompanying drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing the conditions concurrent with the adoption of my device will necessarily vary, I desire to emphasize that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required without sacrificing any of the advantages of my invention as set forth.

What I claim as new is:

A toilet seat of the class described comprising a cover hinged upon said toilet seat, hinges for normally forcing said cover upwardly, said cover having a seat formed in its upper face, a pair of side members of substantially semi-elliptical form hinged along their curved edges to the thickened side portions of the toilet seat and adapted to fold inwardly in a horizontal plane over the closed seat cover, means for resiliently forcing said side members upwardly and outwardly to their raised positions, a cover plate carried in the cover, a pair of guides carried by the cover plate, a pair of spring actuated catches, keepers carried by the side member, said spring actuated catches being adapted to engage said keepers to retain the side members in folded position over said cover, an actuating member adapted to operate in said guide to relieve said catches, means for resiliently retaining said catches in operative position, and a shank slidable through a slot in said cover plate and provided with knobs for operating said actuating member.

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

FRANK B. CONNOR.

Witnesses:
E. G. CRONK,
WARREN F. SEELY.