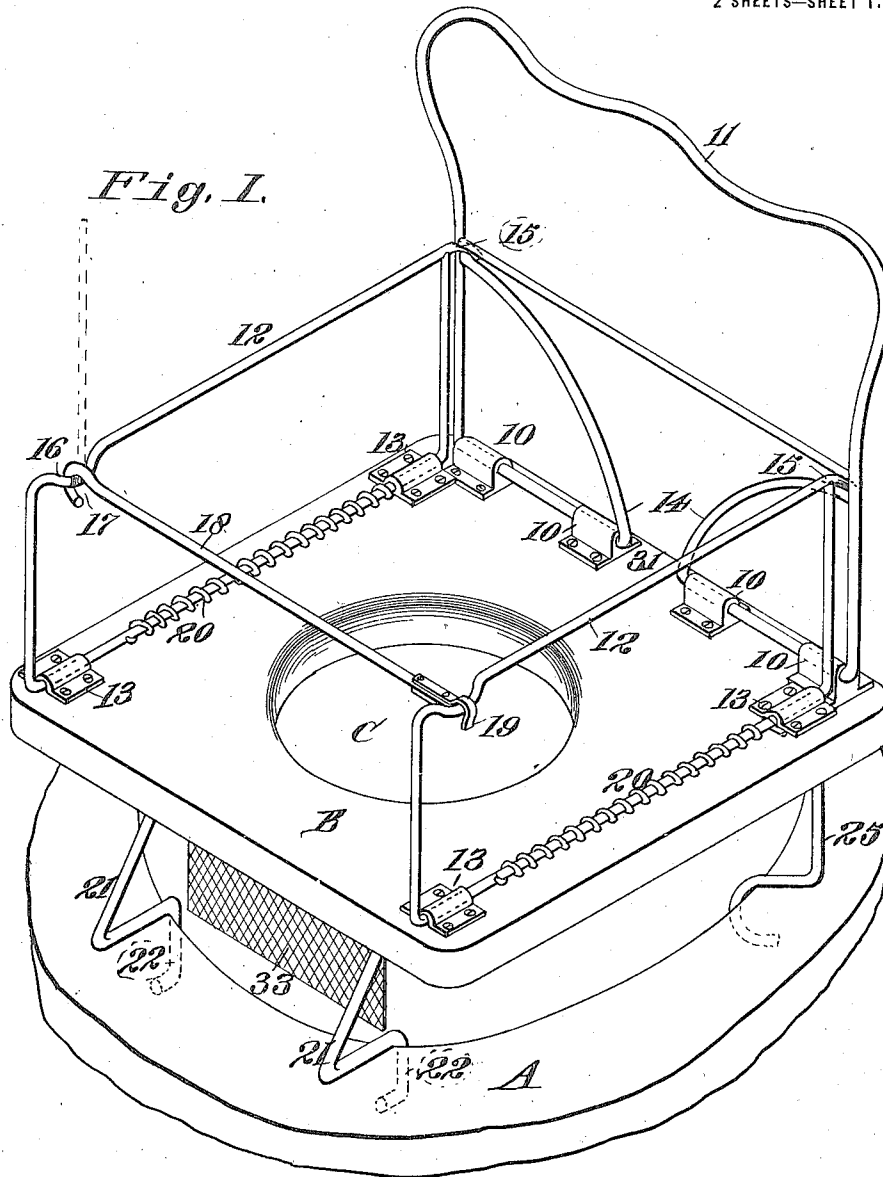


J. C. BACH.
TOILET SEAT ATTACHMENT.
APPLICATION FILED JUNE 10, 1915.

1,233,263.

Patented July 10, 1917.
2 SHEETS—SHEET 1.



WITNESSES:

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2 SHEETS—SHEET 2.

Fig. 2.

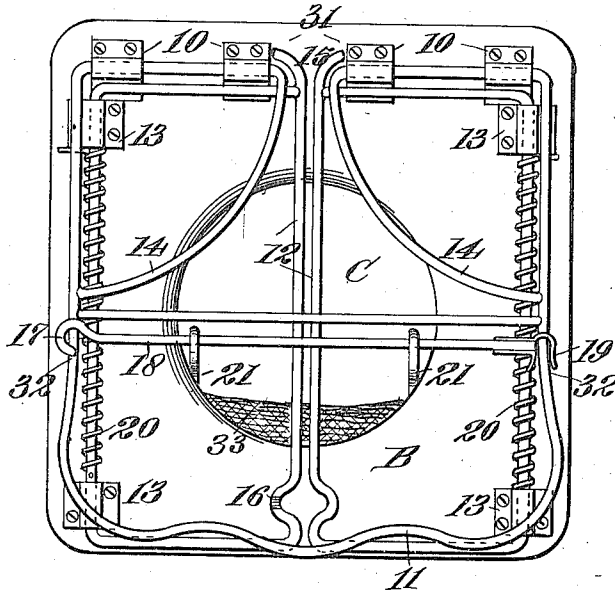
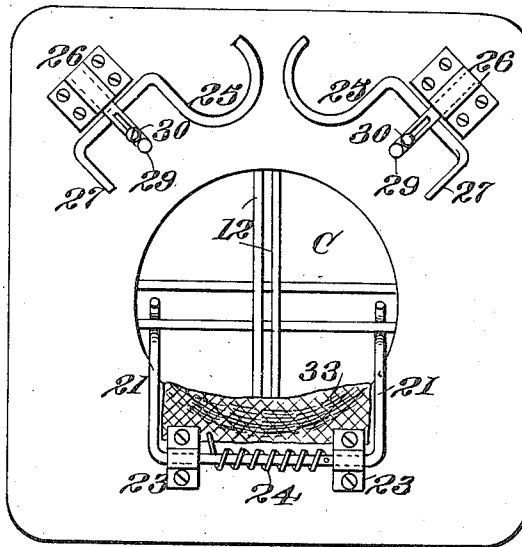


Fig. 3



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UNITED STATES PATENT OFFICE.

JAMES C. BACH, OF SAN FRANCISCO, CALIFORNIA.

TOILET-SEAT ATTACHMENT.

1,233,263.

Specification of Letters Patent.

Patented July 10, 1917.

Application filed June 10, 1915. Serial No. 33,300.

To all whom it may concern:

Be it known that I, JAMES C. BACH, a citizen of the United States, residing at the city and county of San Francisco and State of California, have invented new and useful Improvements in Toilet-Seat Attachments, of which the following is a specification.

This invention relates to a toilet seat attachment and has for its object to simplify and improve the construction and operation of a device of the character illustrated and described in my former application Serial No. 828,683, filed April 1st, 1914.

In carrying out my invention I employ in connection with a child's seat, improved folding and adjustable legs for attaching the same to an ordinary toilet seat and improved arms and back capable of nesting and interlocking with the legs so that the entire structure can be folded into compact size for convenience in transporting and storing.

One form which my invention may assume is exemplified in the following description and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a device embodying my invention.

Fig. 2 is a plan view of the same showing the parts in folded position.

Fig. 3 is an inverted plan view.

Referring in detail to the form of my device illustrated in the drawing there is shown an ordinary toilet seat A to which is attached a child's seat B, having a central opening C. Secured by bearings 10 to the rear end of the seat B is a back-rest 11 and to the sides of the seat are arms 12, hinged by means of bearings 13. The back-rest and arms are preferably of rod construction and the former has a pair of segmental guides 14 formed integrally thereon in position to receive the hook shaped extensions 15, one at the rear end of each of the side arms. Near the forward end of one of the arms is a bent and flattened portion 16 to receive a partially closed eye 17 formed on the end of a cross bar 18; the opposite end of the bar being provided with a spring clasp 19 to fit a bent portion on the other side arm similar to the portion 16. This bar 18 serves to retain the front ends of the arms positively spaced and acts also to confine the occupant within. A force exerted upon the latched end of the cross bar will release the clasp and when the bar is raised to a

substantially vertical position, as shown in dotted lines in Fig. 1, the flattened portion of the rod will permit the partially closed eye to be removed.

The side arms are yieldingly held in extended or upright position by means of torsional springs 20, each connected one end to the axis of the arm and the other end to a stationary part of the structure. The back-rest is held in its upright position by the side arms which are positioned directly in front thereof and the hook shaped extensions in engagement with the guides 14. When the arms are folded over on to the seat the back may be dropped over them and obviously upon releasing of the arms the springs 20 will cause them to immediately fly upward carrying with them the back-rest on account of the interlocking connection.

The seat B is provided at its under surface with a pair of integral front legs 21 of less width than the opening C and having foot portions 22 to engage the annulus of the toilet seat A. The legs are hinged by bearings 23 fixed to the seat and the torsional spring 24 carried on the axis of the legs yieldingly forces the lower ends thereof forwardly. This spring actuated hinged construction permits the legs to be adjusted fore and aft and thereby they may be made to fit any size toilet seat. Rear legs 25 are employed and these are detachably connected to the under surface of the seat B by means of keepers 26 into which the bent upper ends 27 fit snugly from behind. When detached each leg is adapted to lie flatly in a pocket formed in the under surface of the seat adjacent the keeper; and a latch 29 slidable on a pin 30 fits over the pocket and enters the keeper to retain the leg in folded position.

When desired, the device can be quickly folded by releasing and removing the front bar, whereupon the arms will fold downwardly on the seat against the action of the springs 20, and by reason of a cut-away portion 31 in the hinged mounting of the back-rest the arms will contact with and lie parallel with the seat. So folded, the arms will permit a folding movement of the back-rest; and the hinges 10 of the latter being elevated will allow the back-rest to assume a position parallel with and directly on top of the side arms. The rear legs 25 can be detached and folded in a manner already

indicated, and the front legs are movable rearwardly about their hinged pivots until the curved foot portions project through the opening C, as shown in Fig. 2, whereupon the front bar 18 may be inserted underneath the curved foot portions and over the back-rest, with the ends of the bar 18 engaged with inwardly curved portions 32 on the back-rest.

Thus the entire structure is nested, folded and interlocked to occupy a minimum space, which feature is of great importance and advantage when the device is to be used by those traveling, as then it fits readily into the ordinary suit-case or bag.

To unfold and attach the device in operative position the operator merely withdraws the bar 18 whereupon the action of the spring 24 throws the front legs forwardly and similarly the springs 20 thrust the side arms upwardly carrying also the back-rest. The rear legs are then inserted in their keepers and the device is ready to be attached to the seat A.

While I have shown and described but one form of my device, it will be understood that the same is susceptible of modification. Therefore, many changes may be made in the construction and arrangement of the several parts without departing from the spirit of my invention as disclosed in the appended claims.

In using hinged, slanting legs of the present form at the front of the seat, I find it advantageous to employ a shield 33, preferably of rubber, which is attached to the seat B at the rear of the said legs and hangs downwardly as shown in Fig. 1. It is free to move, and obviously does not in any way interfere with the folding of the device.

Having thus described my invention what I claim and desire to secure by Letters Patent is—

1. In a toilet seat attachment, the combination of a seat having a central opening, a hinged back-rest foldably mounted on the seat, a pair of hinged side arms foldably mounted on the seat, hinged legs secured to the bottom of the seat and foldable into the opening therein, and means for interlocking said legs with the arms and back rest to retain the parts in folded position.

2. In a toilet seat attachment, the combination of a seat having a central opening, a back-rest and a pair of side arms hinged upon the seat and foldable thereagainst, yielding means tending to retain the said arms and back-rest in upright position, and spring pressed pivotally mounted legs secured to the bottom of the seat foldable into the opening therein, and means

for interlocking said legs with the arms and back rest to retain the parts in folded position.

3. In a toilet seat attachment, the combination of a seat having a central opening, a hinged back-rest foldably mounted thereon, a pair of hinged side arms foldably mounted on the seat, a detachable cross bar extending between the front ends of said side arms, hinged legs secured to the bottom of the seat and foldable into the opening therein and adapted to receive said cross bar beneath the projecting ends thereof whereby to lock the parts in folded position.

4. In a toilet seat attachment, the combination of a seat having a central opening, a hinged back-rest foldably mounted thereon, a pair of hinged side arms foldably mounted on the seat, hinged front legs secured to the bottom of the seat and foldable into the opening therein, means for interlocking said legs, arms and back to retain them in folded position, and a pair of rear legs rigidly secured to said seat and foldable to position and parallel therewith.

5. In a toilet seat attachment, the combination of a seat having a central opening, a hinged back-rest thereon, a pair of hinged side arms on the seat, segmental guide members on the back-rest, means on the rear ends of the side arms cooperating with the guide members to interlock the arms and back-rest, resilient means for retaining the side arms normally in upright position, a cross bar detachably connected between the front ends of the side arms, pivoted legs on the under surface of said seat spring pressed outwardly, said legs being foldable to position with a portion thereof projecting through the opening in the seat to receive the detached cross bar in a manner to lock the legs, arms and back-rest in folded position.

6. In a toilet seat attachment, the combination of a seat having a central opening, hinged side arms and back-rest carried upon the upper surface of said seat foldable flatly thereagainst, hinged front legs foldable against the under surface of the seat and spring pressed outwardly, and detachably connected rear legs on the under surface of the seat, pockets formed in said seat to receive the rear legs when detached, and means for retaining said legs within the pockets.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JAMES C. BACH.

Witnesses:

JOHN H. HERRING,
W. W. HEALEY.