To all whom it may concern:

Be it known that I, HENRY L. BLOCK, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented certain new and useful improvements in folding toilet-seats, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to new and useful improvements in folding toilet-seats for children's use, the principal object of my invention being to provide a simple, inexpensive seat that can be easily and quickly unfolded in position upon an ordinary water closet seat or bowl.

Further objects of my invention are to construct a seat that can be folded, so as to occupy comparatively little space when not in use, and to provide the seat with means whereby it may be readily attached to the ordinary closet seat or bowl without injury thereto, and which attaching means is adjustable in order that the detachable seat may be used in connection with all sizes of ordinary toilet seats and bowls.

To the above purposes, my invention consists in certain novel features of construction and arrangement of parts hereinafter more fully described, claimed and illustrated in the accompanying drawings in which:

Figure 1 is a perspective view of a folding toilet-seat of my improved construction, the same being shown in open position; Fig. 2 is a perspective view of the seat when folded; Fig. 3 is a plan view on a larger scale of my improved folding seat positioned upon an ordinary toilet-seat; Fig. 4 is a vertical section taken on the line 4—4 of Fig. 3; and Fig. 5 is an enlarged detail section taken on the line 5—5 of Fig. 3.

In the construction of the seat as shown, back 12 abutting flatwise along the bottom of its front face directly against the rear face of seat 10 and being thereby held in upright position approximately at right angles to seat 10 when in unfolded or in operative position. Swinging rails or bars 13 are pivotally mounted between their ends on the sides of the seat 10 near its front edge and are freely swingable relatively thereto, and fixed to and arranged between the lower ends of these swinging bars is a foot rest 14. Apertures 15 are preferably formed in the upper portions of the bars 13, in order to receive the end portions of a suitable child-retaining strap 16. Pivotedly connected to the upper ends of the bars 13 and to the sides of the seat-back 12 and freely swingable relatively thereto are arm rails 17.

Positioned on the underside of the seat 10 immediately to the rear of the opening therein is a transversely disposed substantially U-shaped plate 18, the leg or end portions 19 of which are extended rearwardly and slotted as designated by 20. The ends of said rearwardly-extended portions or legs 19 are curved downwardly and outwardly, and are incased in caps 21 of rubber or analogous material so as to prevent marring or injuring the varnished or glazed surfaces with which they may come in contact. Screws 22 which pass through the slots 20 and are seated in the underside of the seat 10 provide means for locking the plate 18 and its carried parts after adjustment.

Slotted plates 23 are arranged on the underside of the seat 10 to the sides of the opening 11. Depending from the rear ends of these plates are pins 24, that are incased in cylindrical blocks 25 of rubber or analogous material. Screws 26 that pass through the slots in the plates 23 and are seated in the seat 10 provide means for locking or holding the plates 23 and carried parts after adjustment.

The seat retaining means comprising the plates 18 and 23 and carried parts are adjusted so that when the seat 10 is positioned for use, the caps 21 and blocks 25 bear directly against the edges of the ordinary toilet seat or bowl, thus firmly holding the folding seat during the time it is being used.

When the device is not in use, the back 12 is folded forwardly onto the seat 10, and this movement swings the foot rest 14 into position against the underside of the seat as shown.
shown in Fig. 2. Thus the entire seat can be folded so as to occupy comparatively little space while not in use, or while being shipped from factory to market.

The folding seat can be instantly opened by grasping the upper end of the seat back 19 and giving the same a quick jerk away from the seat 10, which action swings the back 12 and seat 10 apart and into operative position and consequently and simultaneously moves the foot rest into proper position. After the retaining members on the underside of the seat 10 have been once adjusted to fit a certain sized seat opening or bowl, no further adjustments are required, and it is a simple matter to locate the folding seat on the fixed seat or bowl inasmuch as it is only necessary to engage the downwardly curved ends of the plate 18 against the rear edge of the opening in the closet seat or bowl and then bear downward upon the forward portion of the seat 10 to force the rubber-covered pins 24 against the side edges of the opening in said closet seat or bowl.

It will be seen that, bars 13 and rails 17 being freely swingable and free from engaging shoulders or other abutting surfaces, the abutting of back 12, when unfolded, flatwise along the lower portion of its front face below the hinge line thereof directly against the rear face of seat 10 alone maintains the parts in unfolded, operative positions and that back 12 is freely foldable at all times when seat 10 is not occupied by a person flatwise thereupon into inoperative position without any prior manipulation of bars 13 and rails 17 or their carried foot-rest 14.

A folding toilet-seat of my improved construction is comparatively simple, can be cheaply manufactured, is readily folded or unfolded, can be quickly placed in position for use, does not mar or injure the seat or bowl on which it is positioned, and provides simple means whereby children may safely and conveniently have the use of toilet seats and bowls ordinarily used by adults.

It will be readily understood that minor changes in the size, form, and construction of the various parts of my improved device may be made and substituted for those herein shown and described without departing from the spirit of my invention, the scope of which is set forth in the appended claims.

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

1. In a portable folding seat of the class described, a seat having an opening, a substantially U-shaped plate adjustabley mounted on the under side of said seat to one side of said opening, the legs of said plate being provided with depending curved extensions presented rearwardly, and plates adjustable carried on the under side of said seat to the sides of said opening and provided adjacent one end thereof with depending members, substantially as and for the purposes described.

2. In a portable folding seat of the class described, a seat having an opening, a substantially U-shaped plate adjustablely mounted on the under side of said seat to one side of said opening, the legs of said plate being provided with depending curved extensions presented rearwardly, plates adjustable carried on the under side of said seat to the sides of said opening, and separate members attached to, and depending from, said plates adjacent one end thereof, substantially as and for the purposes described.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

HENRY L. BLOCK.

Witnesses:

RUTH PETERSON,
ZELMA PULUS.