

(No Model.)

J. J. BERRY.
HINGE.

No. 520,629.

Patented May 29, 1894.

Fig. 1.

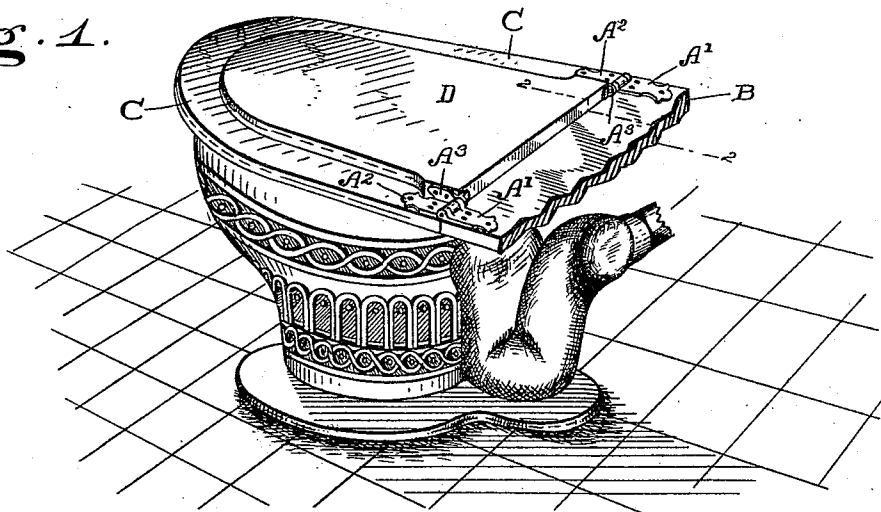


Fig. 2.

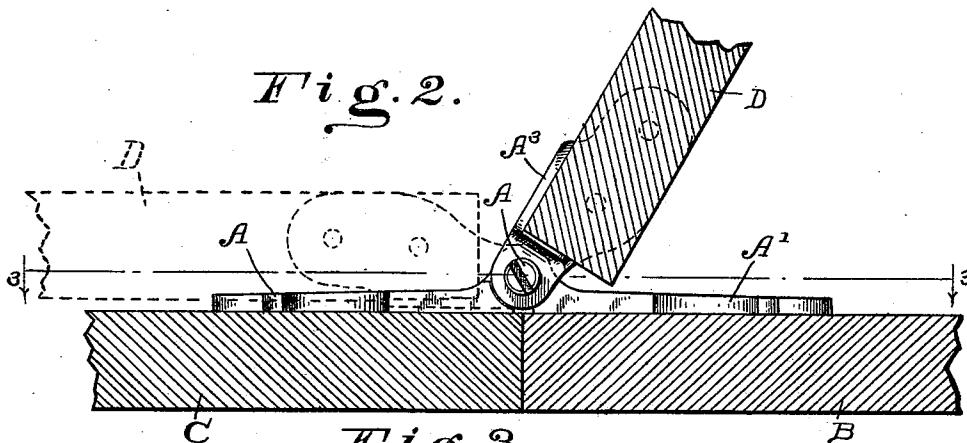
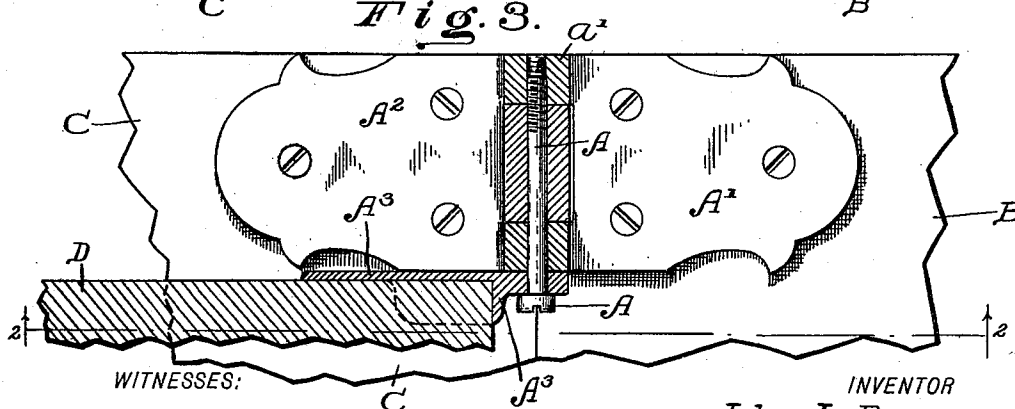


Fig. 3.



WITNESSES:

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JOHN J. BERRY, OF INDIANAPOLIS, INDIANA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 520,629, dated May 29, 1894.

Application filed December 26, 1893. Serial No. 494,668. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. BERRY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Hinges, of which the following is a specification.

My invention relates to three-part hinges, especially those of the variety which are used on water closet seats, whereby both the seat and the lid are hinged to the stationary part by a single set of hinges.

The object of my said invention is to provide hinges of the character described in which the third parts may be easily removed, and with them the lid, leaving the hinges, when the pintles are replaced, similar to ordinary two-part hinges.

A hinge embodying my said invention will be first fully described, and the novel features thereof then pointed out in the claims.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a perspective view of a water closet bowl with the seat and lid thereon, said seat and lid being attached by means of my improved hinges; Fig. 2 a detail sectional view as seen from the dotted line 2 2 in Fig. 1, except that the fragment of the lid shown, is shown in raised position, the closed position being shown by means of dotted lines, and Fig. 3 a horizontal sectional view, on the line of the axis of the pintle, as seen from the dotted line 3 3 in Fig. 2, except that the lid is shown in closed position, as in Fig. 1. Figs. 2 and 3 are full sized views of my improved hinge.

In said drawings the portions marked A', A² and A³ represent the three parts of my improved hinge; B the stationary board or strip to which the seat and cover are hinged; C the water closet seat, and D the water closet lid. Except as to those features expressly stated to be novel, all of these parts are of an ordinary and well known form, and need no special description. The hinge parts A' and A² are constructed similarly to the corresponding parts of an ordinary design of such hinges, and are secured to the strip B and seat C by screws or equivalent

devices, as is common. The parts A³ are secured to the corners of the lid D, and swing on the same pintle A which unites the parts A' and A². This pintle A is in the form of a machine screw, one end of which is provided with a head, while the other is threaded. One of the bosses a' (shown as on the part A') is also threaded. The distance from the extreme point of this pintle to the under surface of the head is about equal to the distance across the hinge when the part A³ is removed, so that said pintle point will be substantially flush with the side of the hinge after said part is removed and said pintle reinserted in the two parts A' and A², while, as will be seen by an inspection of Fig. 3, it is long enough to engage with the screw-threaded boss a', when said part A³ is attached. It is thus only necessary in changing this from a two-part to a three-part hinge, or from a three-part to a two-part, to remove the pintle A, and either put the lid D, with the parts A³ attached thereto, in position, and insert said pintles, or remove said lid with said parts, and then insert said pintles;—the result being that the seat is changed from a seat without a lid to one with a lid, or from a seat with a lid to a seat without a lid, without disturbing any of the other parts, or marring the hinge in any way, or leaving any indications that the change has been made. This manifestly is of considerable importance where it is desired to change from one style to another, and this, as is well known, is frequently the case. I am aware that three-part hinges for this purpose have been used which are capable of being detached, but such usually involve some special construction, so that when the third part is detached the remaining parts show some evidence that the detachment has been made.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the two ordinary hinge parts A' and A², one boss whereon has its perforation screw threaded, a third part A³, and a screw-threaded pintle A adapted to unite either the two parts or the three parts at will, substantially as set forth.

2. The combination of the two main hinge

parts A' and A², the pintle A thereto, screw
threaded at one end and provided with a head
at the other, and the third part A³ adapted to
be mounted on the same pintle A, or to be
5 removed therefrom, substantially as and for
the purpose set forth.

In witness whereof I have hereunto set my

hand and seal, at Indianapolis, Indiana, this
21st day of December, A. D. 1893.

JOHN J. BERRY. [L. s.]

Witnesses;

CHESTER BRADFORD,
JAMES A. WALSH.