

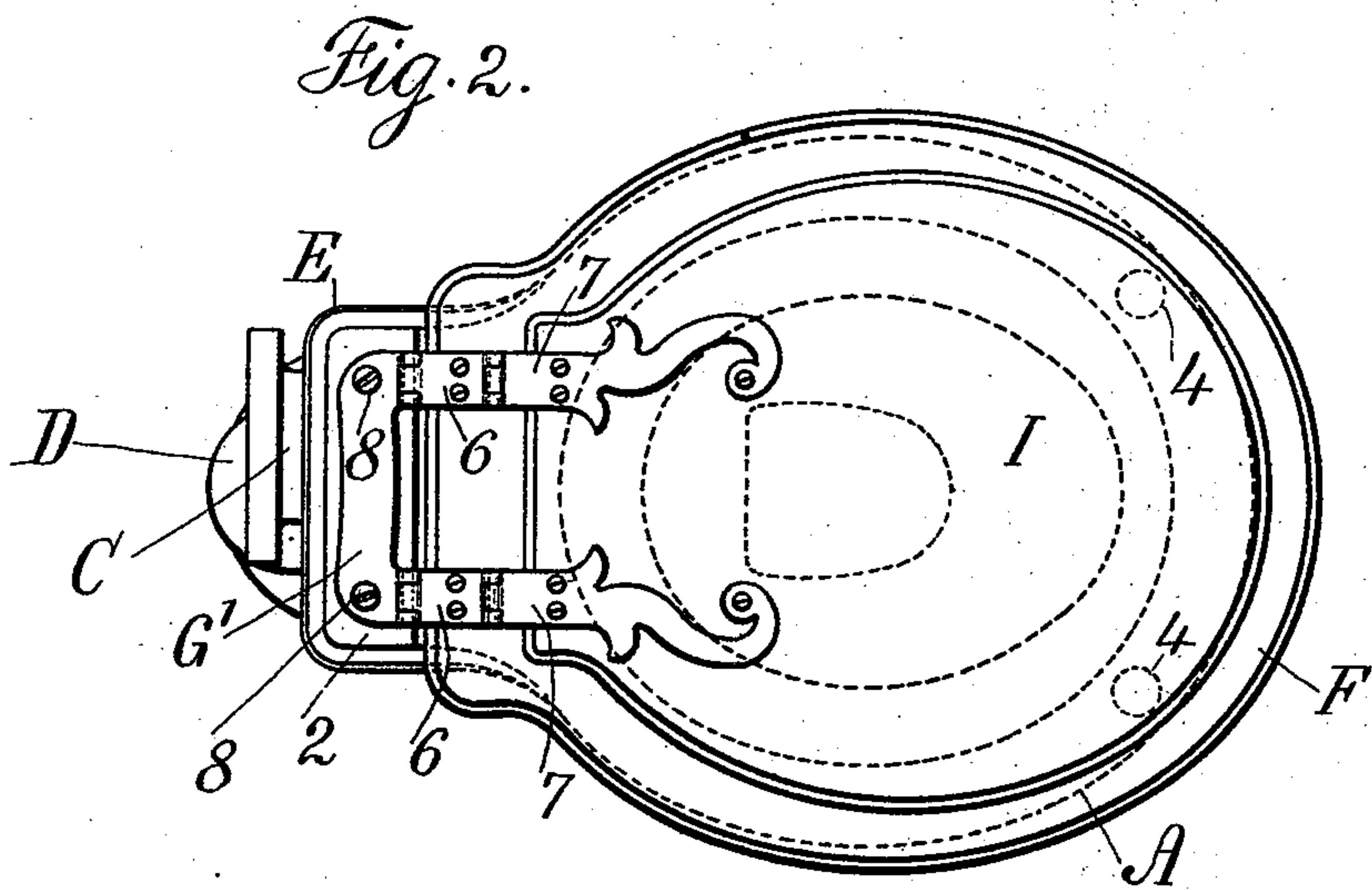
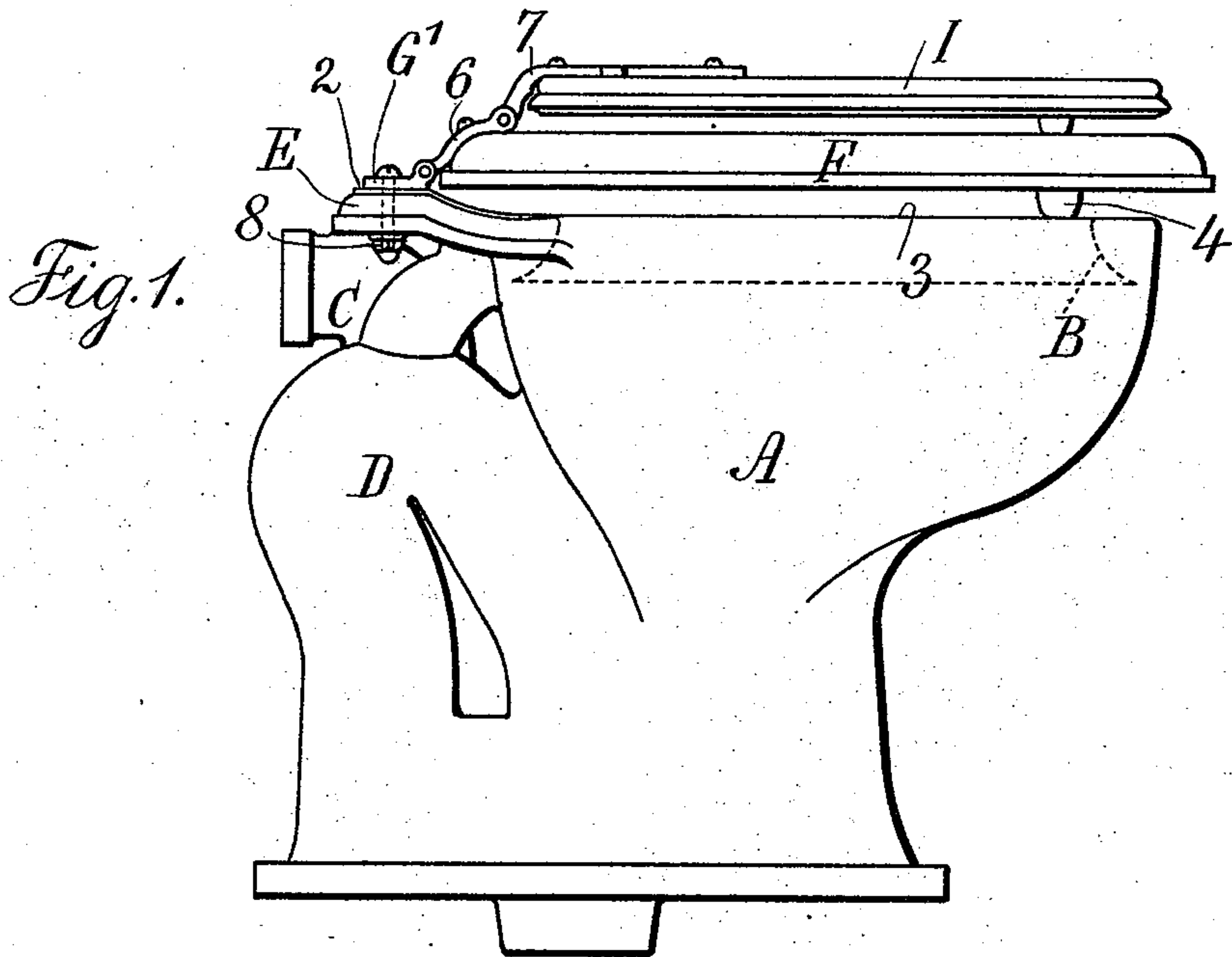
(No Model.)

2 Sheets—Sheet 1.

E. HAMMANN.  
WATER CLOSET.

No. 539,477.

Patented May 21, 1895.



Witnesses:  
J. Stail  
char. Smith

Inventor:  
Edward Hammann  
per Lemuel W. Terrell  
Atty

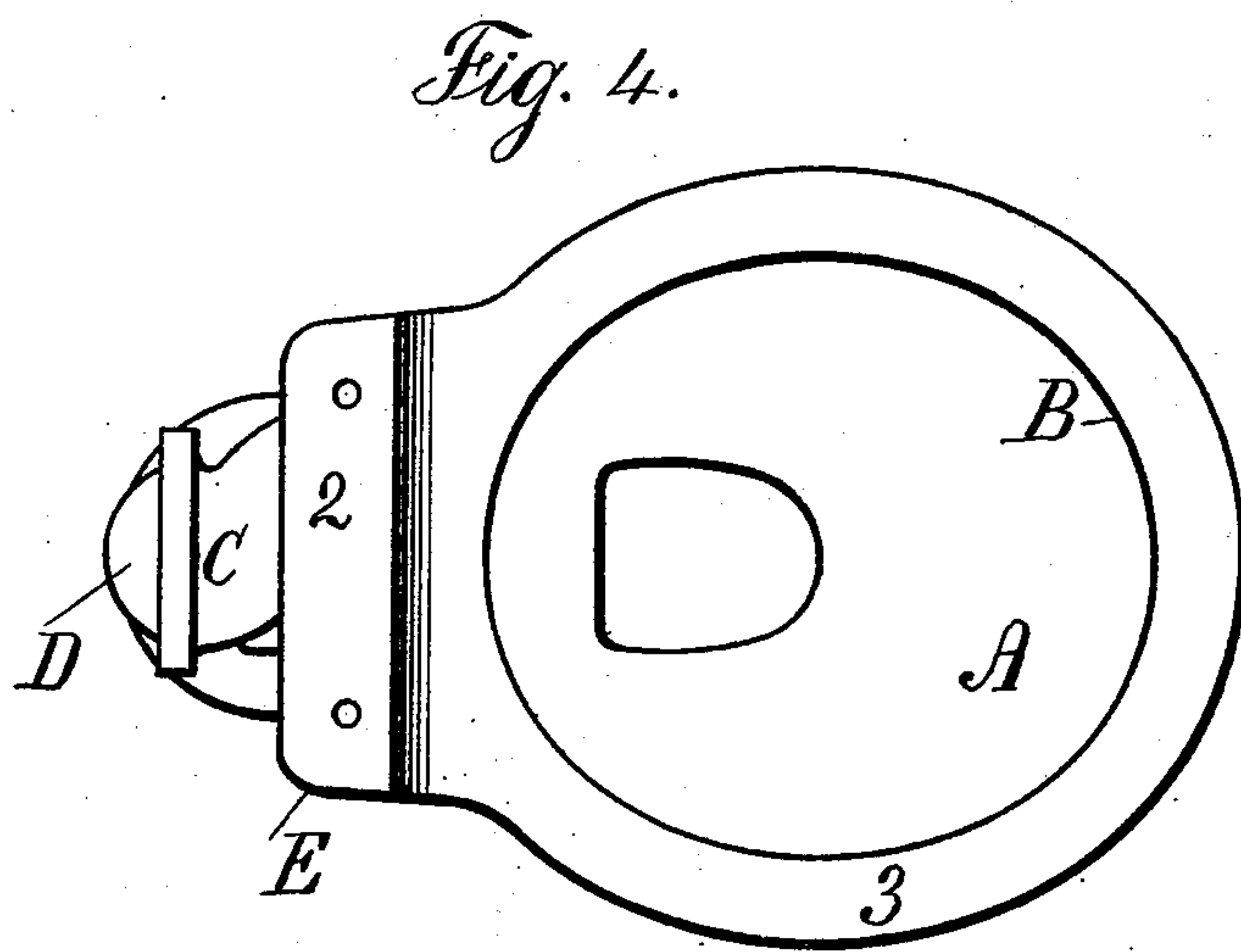
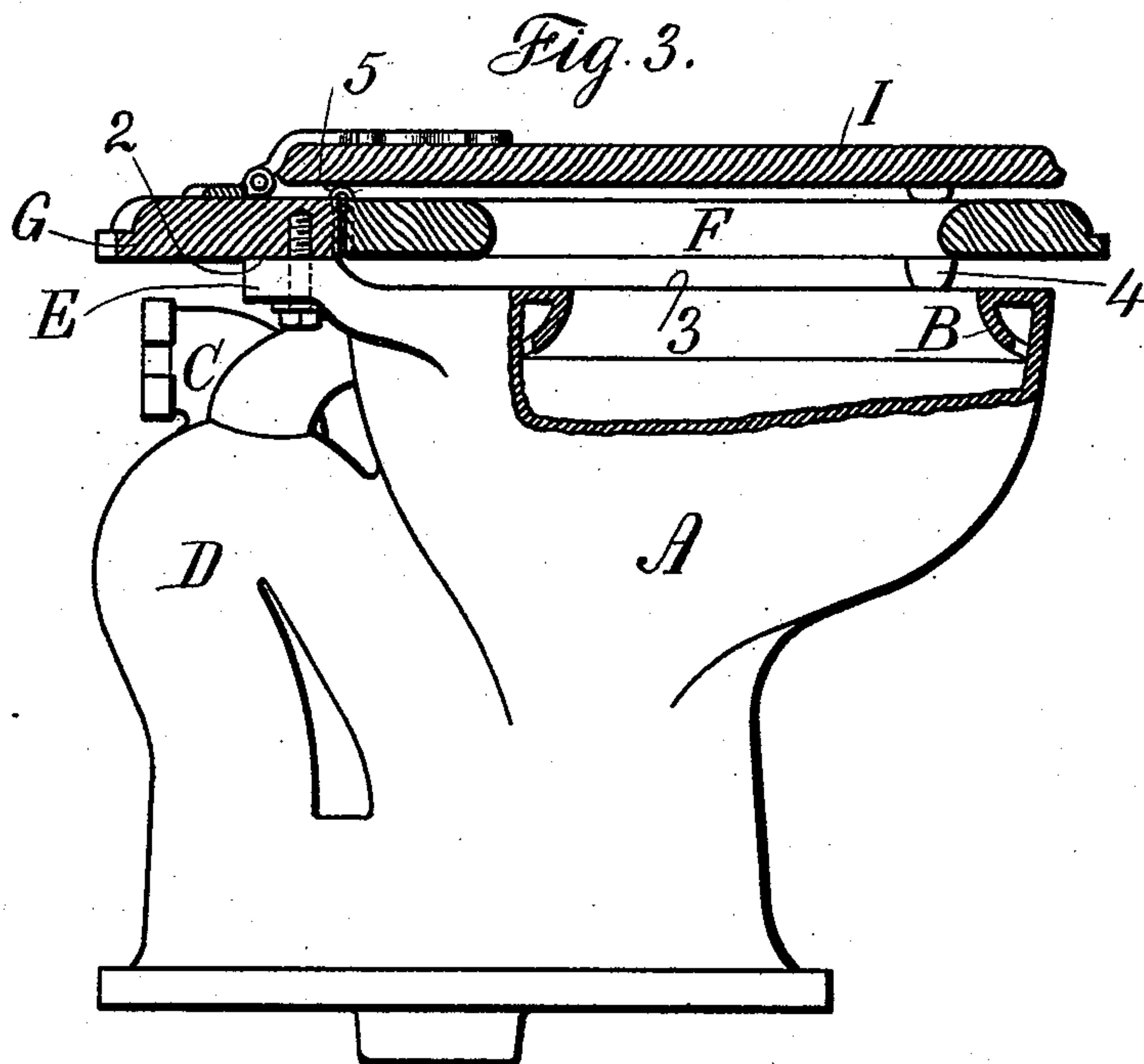
(No Model.)

2 Sheets—Sheet 2.

E. HAMMANN.  
WATER CLOSET.

No. 539,477.

Patented May 21, 1895.



Witnesses:  
J. Staib  
Chas H. Smith

Inventor:  
Edward Hammann  
per Lemuel W. Serrell Atty



# UNITED STATES PATENT OFFICE.

EDWARD HAMMANN, OF BROOKLYN, ASSIGNOR TO THE J. L. MOTT IRON  
WORKS, OF NEW YORK, N. Y.

## WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 539,477, dated May 21, 1895.

Application filed February 5, 1894. Serial No. 499,105. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD HAMMANN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Water-Closets, of which the following is a specification.

In Letters Patent No. 510,598, granted to me December 12, 1893, a porcelain bowl is represented having a flushing rim and a flange or shelf at the rear portion resting upon the inlet water way, and the seat is provided with a seat plate resting upon the flange or shelf and securely connected therewith. In this closet the upper surface of the porcelain is substantially level, and any water or liquid that may be upon the top surface of the bowl is liable to run in between the seat plate and the porcelain, and either the seat plate has to be thicker than the seat in order to elevate the seat slightly above the top edge of the basin, or else a separate filling piece of rubber or other material has to be inserted.

The present invention is primarily for preventing the risk of water passing along upon the nearly level surface of the bowl and passing in between the seat plate and the flange or shelf, and a secondary object of the present invention is to raise the seat sufficiently above the top edge of the basin for the rubber supporting blocks that hold up the seat and allow free circulation of air, in order that the top edge of the basin may dry off should any liquid be spilled upon the same, and another object of the present invention is to provide for dispensing with a wooden seat plate and for introducing in its stead a combined plate and metal hinge. To effect these objects I make the flange or shelf with the upper surface raised above the top edge of the rim of the bowl, so that the raised surface of the shelf or ledge is level or nearly so with the under surface of the seat, and there is sufficient space between the seat and the top surface of the bowl for the supporting blocks and for the passage of air in keeping the parts dry, and this raised shelf or flange may be more or less ornamental in its configuration, and in order to dispense with the wooden seat plate represented in my aforesaid patent, I construct the hinge in such a manner that one

plate or leaf thereof rests upon the top surface of the shelf and is permanently connected therewith.

In the drawings, Figure 1 is an elevation of the closet-bowl and the seat and cover. Fig. 2 is a plan view of the lid, seat, and bowl. Fig. 3 is a section of the seat and lid with a wooden seat-plate, the bowl being partially in section; and Fig. 4 is a plan view of the closet-bowl with the raised flange or shelf.

The bowl A is of any desired character and usually the same is of porcelain and provided with a hollow flushing rim B, and the inlet water way C is connected with the flushing rim, and a trap is represented at D. These parts however may be varied according to the character of the closet to which the present improvements are applied.

The flange or shelf E is integral with the closet and it extends to the rear and the outline or configuration of the same is more or less ornamental, and the top surface 2 is elevated above the top surface 3 of the flushing rim B, there preferably being a curve or cove between the two surfaces, and the surface 2 is sufficiently above the surface 3 to prevent liquid material upon the top 3 flowing upon the top surface of the flange or shelf E, and the under side of the seat F is usually on the same level or nearly so as the top surface of the flange or shelf E, and it is sometimes advantageous to allow the back edge of the seat F to rest upon the front part of the flange or shelf E, and the rubber supporting blocks 4 are fastened to the under side of the seat F near the front part thereof and rest upon the top of the bowl A and raise the seat, so that the under surface thereof is parallel or nearly so with the top of the bowl. These rubber blocks prevent injury to the porcelain, and there is an opening sufficiently wide between the closet and seat for the free circulation of air, so that the parts may rapidly dry should there be any water upon the top surface of the flushing rim.

The seat F may be connected to a wooden seat plate G by hinges 5, as seen in my aforesaid patent and also in Fig. 3, but in Figs. 1 and 2 a metal hinge G' is represented, having one leaf or plate that is adapted to rest either directly upon the top surface 2 of the



flange or shelf E or else to rest upon a layer of rubber or rubber washers intervening between the plate and the surface of the flange or shelf E, and this plate extends up and is united to and forms part of the hinge 6 that is connected to the seat F, and where a lid I is made use of, the same is hinged, preferably to the hinge pieces 6, there being a leaf 7 extending up from the hinge pieces 6 and secured to the surface of the lid I by screws.

The hinge may be made double as represented, the plate G having the hinge connections near its ends, or the plates of the hinges that are bolted to the shelf may be separate.

In order to connect the plate G' with the flange or shelf E, bolts 8 are preferably employed, the same passing through holes in the metal plate and in the flange or shelf E, such bolts having suitable heads or nuts, so as to clamp the metal hinge plate firmly to the flange or shelf. The screws for the wooden seat plate preferably pass up from below, as seen in Fig. 3.

This improvement is very cleanly and durable and at the same time ornamental and easily kept in an acceptable condition, and in Figs. 1 and 2 the edge of the flange E is represented as ornamented with a molding or bead.

I claim as my invention—

1. The porcelain closet having a shelf projecting at the back thereof, the upper surface of the shelf being higher than the top edge of the closet bowl, substantially as and for the purposes set forth.

2. The combination with the seat, of a water closet bowl having an integral flange projecting at the back, the top surface of the flange or shelf being above the top edge of the bowl, and supporting blocks beneath the seat

and resting upon the porcelain to maintain the under surface of the seat parallel or nearly so with the top edges of the closet basin, and hinges connecting the seat to the flange or shelf, substantially as set forth.

3. The combination with a water closet bowl having a flange or shelf projecting at one side, the surface of which is raised above the top edge of the closet bowl, of a seat, a metallic hinge connected with the seat and having a plate resting upon the shelf, and means for connecting the metallic plate to the flange or shelf, substantially as set forth.

4. The combination with the porcelain closet having a flange or shelf projecting at one side, the surface of which is raised above the top edge of the closet bowl of a seat, and a lid and a double jointed hinge connecting the lid and seat and having a metallic plate extending over the shelf, and means for connecting the metallic plate to the porcelain flange or shelf of the closet, substantially as set forth.

5. The combination with the seat, of a water closet bowl having an integral flange projecting at the back, the top surface of the flange or shelf being above the top edge of the bowl, and a hinge connection between the shelf and seat, substantially as set forth.

6. The combination with the seat and seat plate, of a water closet bowl of porcelain having an integral flange projecting at the back, the top surface of the flange or shelf being above the top edge of the bowl, substantially as set forth.

Signed by me this 2d day of February, 1893.

EDWARD HAMMANN.

Witnesses:

GEO. T. PINCKNEY,  
A. M. OLIVER.