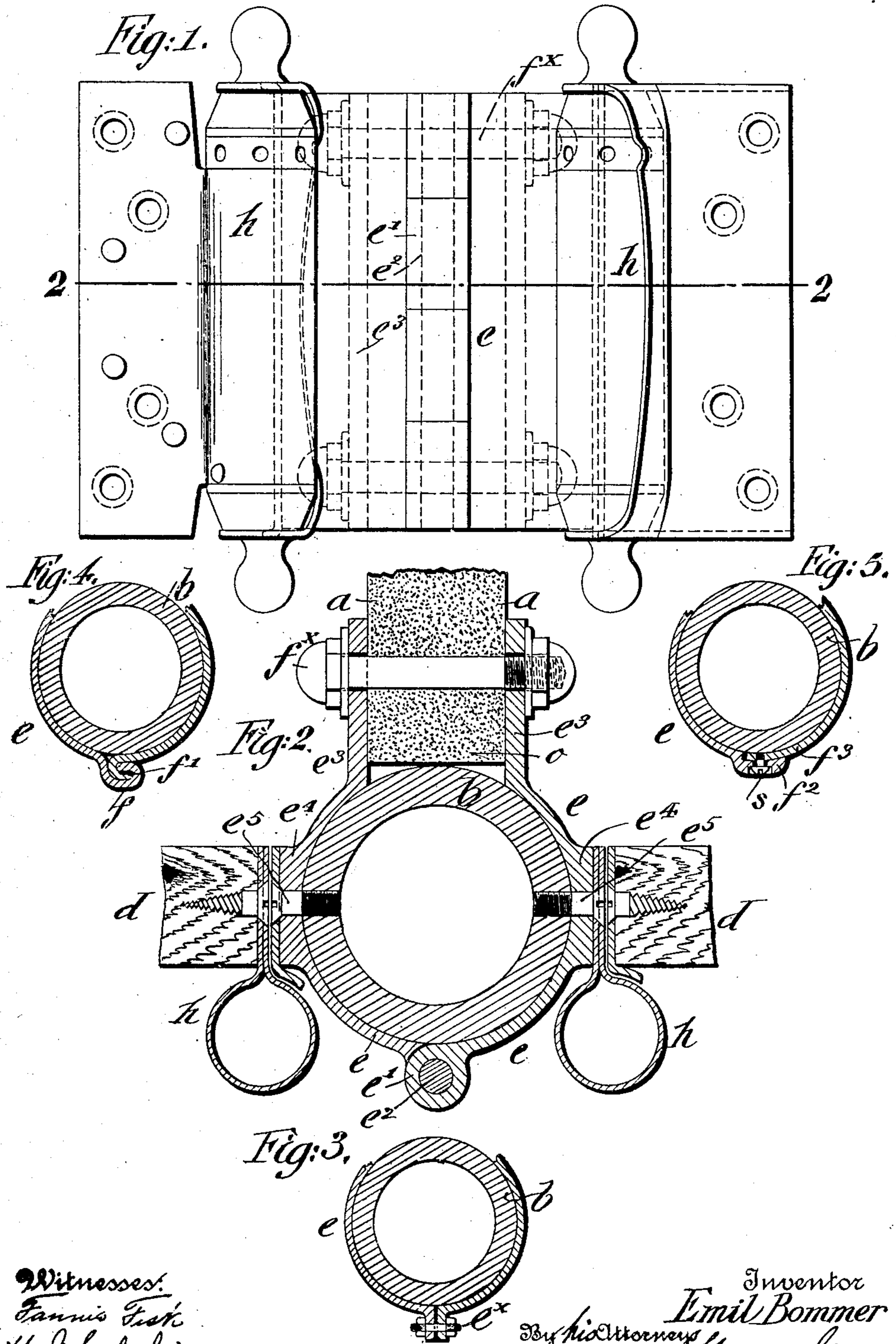


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 SPRING HINGE ATTACHMENT FOR LAVATORY DOORS.  
 APPLICATION FILED JULY 16, 1908.

916,662.

Patented Mar. 30, 1909.



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# UNITED STATES PATENT OFFICE.

EMIL BOMMER, OF NEW YORK, N. Y.

## SPRING-HINGE ATTACHMENT FOR LAVATORY-DOORS.

No. 916,662.

Specification of Letters Patent.

Patented March 30, 1909.

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*To all whom it may concern:*

Be it known that I, EMIL BOMMER, a citizen of the United States of America, residing at New York, in the borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Spring-Hinge Attachments for Lavatory-Doors, of which the following is a specification.

This invention relates to an improved spring-hinge attachment for lavatory-doors such as are used in public and private bathing establishments, public comfort stations, water-closets, etc., in which the partitions which separate the compartments terminate in upright pipe-standards to which, in connection with the partitions, the doors are hung where it is desirable to make a firm and reliable connection between the upright standard, partition, and door-hinge; and for this purpose the invention consists of a separable attachment for lavatory-doors suitable for being clamped with the hinge to the upright standard at the end of the partition and the partition itself, connecting these parts rigidly together and comprising in its construction a ring-shaped clamp formed of two separable parts connected at one end with each other and means for fastening the same to the pipe-standard, and provided at the opposite end with parallel flanges, and means for fastening such flanges to the partition, and spring-hinges applied to cheeks formed on the ring-shaped section of the clamp to which one flange of each hinge is screwed, riveted or otherwise fastened, while the other flange of each hinge is attached to the door.

In the accompanying drawing, Figure 1 represents a front-elevation of my improved spring-hinge attachment for lavatory-doors, Fig. 2 is a horizontal section on line 2, 2, Fig. 1, and Figs. 3, 4 and 5 are modified constructions, showing the connection of the two sections of the ring-shaped clamp.

Similar characters of reference indicate corresponding parts throughout the figures.

Referring to the drawing, *a* represents the partition that separates two adjacent lavatories from each other. At the front-edge of the partition *a* is arranged an upright pipe-standard *b* to which two pairs of spring-hinges *h*, by which the lavatory-doors *d* are hung, are applied. The standard *b* is rigidly connected with the partition *a* by means of two ring-shaped clamps *e*, one for the upper

spring-hinges and the other for the lower spring-hinges to which each door is attached. The ring-shaped clamp *e* is made of two parts which are connected at the front-part either by a hinged knuckle *e*<sup>1</sup> and pintle *e*<sup>2</sup>, as shown in Fig. 2, or by outwardly-bent flanges and fastening bolts *e*<sup>x</sup>, as shown in Fig. 3, or by bent-up interlocking flanges *f* *f*<sup>1</sup>, as shown in Fig. 4, or by a recessed overlapping flange *f*<sup>2</sup> connected with the underlapping part *f*<sup>3</sup> by connecting screws *s*, as shown in Fig. 5. Any suitable connection between the two parts of the ring-shaped clamp *e* may be used. Each part of the ring-shaped clamp is provided at its rear-part, that is to say, at the edge opposite the front connection between the parts of the ring-shaped clamp, with parallel flanges *e*<sup>3</sup> which extend over the opposite sides of the partition and are attached thereto by transverse fastening bolts *f*<sup>x</sup>, which are provided with heads and screw-nuts, and washers interposed between the heads and screw-nuts and flanges, as shown in Figs. 1 and 2.

Two bolts are generally used for attaching the flanges of the ring-shaped clamps to the partition, as shown in dotted lines in Fig. 1. The ring-shaped clamp *e* is provided at opposite sides with raised cheeks *e*<sup>4</sup> having flat surfaces parallel with the longitudinal center-line of the partition and standard *b* to which the flanges of the spring-hinges *h*, by which the doors are hung, are fastened by means of machine-screws *e*<sup>5</sup> which pass through the cheeks into the standard, or one flange of each hinge may be cast or formed integral with the cheeks of the ring-shaped clamp. The spring-hinges are attached to the doors in the usual manner, so that each door swings independently. Any approved construction of spring-hinge can be used. The opposite sides of the doors *d* abut against suitable rubber-cushioned strikes in the usual manner.

The attachments with the spring-hinges and fastening bolts and screws are made up ready for immediate use, and need not as heretofore be slipped down over the top of the standard and partition before the installation is entirely complete, but the same can be clamped into place or removed therefrom at any time when the installation is ready for the doors, the attachment forming thereby a very convenient and time-saving device for rigidly uniting the doors of lavatories with the partitions and upright stand-

ards, in public and private bathing establishments, public comfort stations, etc.

Having thus described my invention, I claim as new and desire to secure by Letters  
5 Patent:

1. A spring-hinge attachment for lavatory-doors, which comprises a ring-shaped clamp formed of two parts, means for connecting the outer ends of the same, transverse bolts for attaching the inner ends or  
15 flanges of the ring-shaped clamp to the partition, and spring-hinges one flange of each of which is attached to the ring-shaped clamp, while the other flange is attached to the lavatory-door.

2. A spring-hinge attachment for lavatory-doors, comprising a ring-shaped clamp made of two parts, means for connecting the outer or front ends of said parts, parallel  
20 flanges at the rear-ends of the clamp, transverse bolts for attaching said flanges to the partition, raised cheeks at opposite sides of the clamp, and spring-hinges one flange of each of which is attached to the cheeks and  
25 the other flange of which is attached to the lavatory-door.

3. A spring-hinge attachment for lavatory-doors, comprising a ring-shaped clamp

made of two parts and having flanges at the rear-ends, means for connecting the outer or  
30 front ends of said parts, means for fastening the ring-shaped section of said clamp to the standard of the partition, and means for fastening the flanges at the rear-end of said clamp to the partition.

4. In a spring-hinge attachment for lavatory-doors, the combination of a ring-shaped clamp made of two parts having means for connecting the outer or front ends of said parts, and means for fastening said clamp to  
40 both the upright standard and partition.

5. In a spring-hinge attachment for lavatory-doors, the combination of a ring-shaped clamp made of two parts and provided with means for connecting the outer or front ends  
45 of said parts, means for fastening said clamp to both the upright standard and partition, and a spring-hinge one leaf of which is attached to the clamp.

In testimony, that I claim the foregoing  
50 as my invention, I have signed my name in presence of two subscribing witnesses.

EMIL BOMMER.

Witnesses:

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HENRY J. SUHRBIER.