

No. 886,115.

PATENTED APR. 28, 1908.

F. H. CULLEN.

SEAT.

APPLICATION FILED APR. 7, 1906.

Fig. 1.

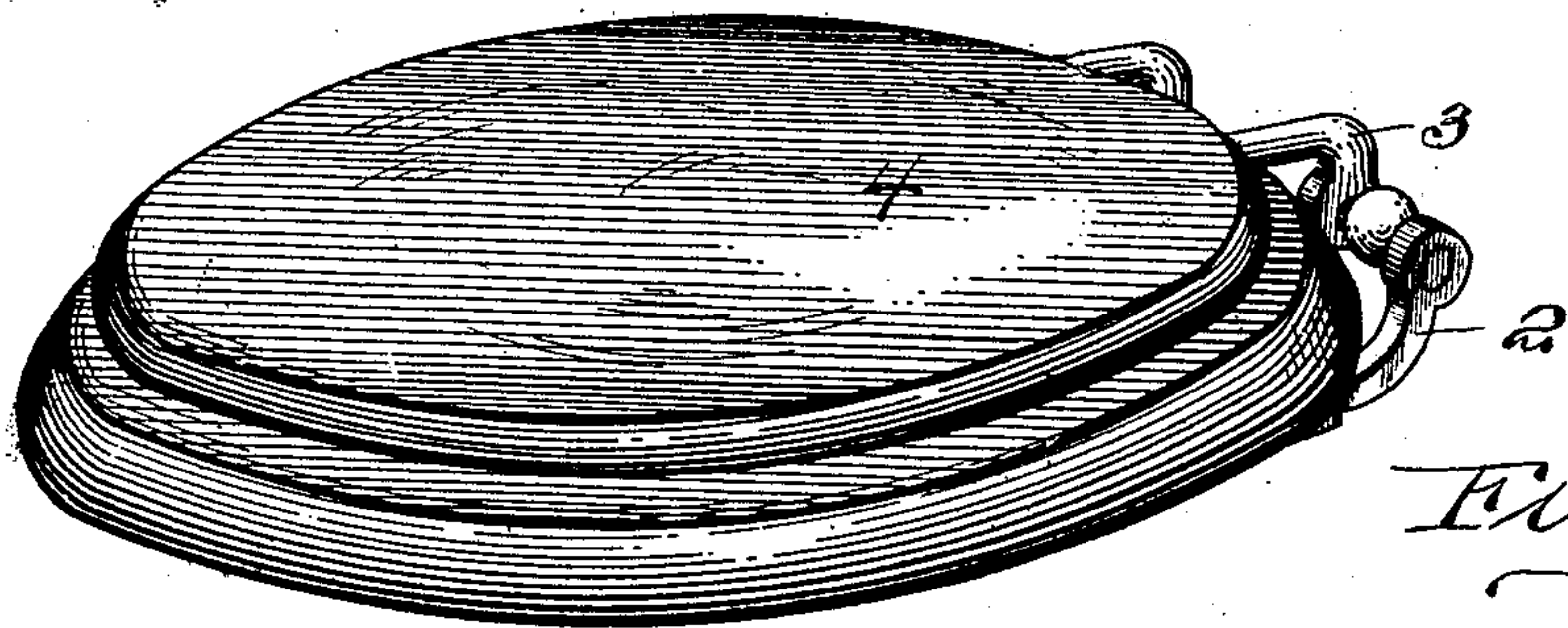


Fig. 3.

Fig. 2.

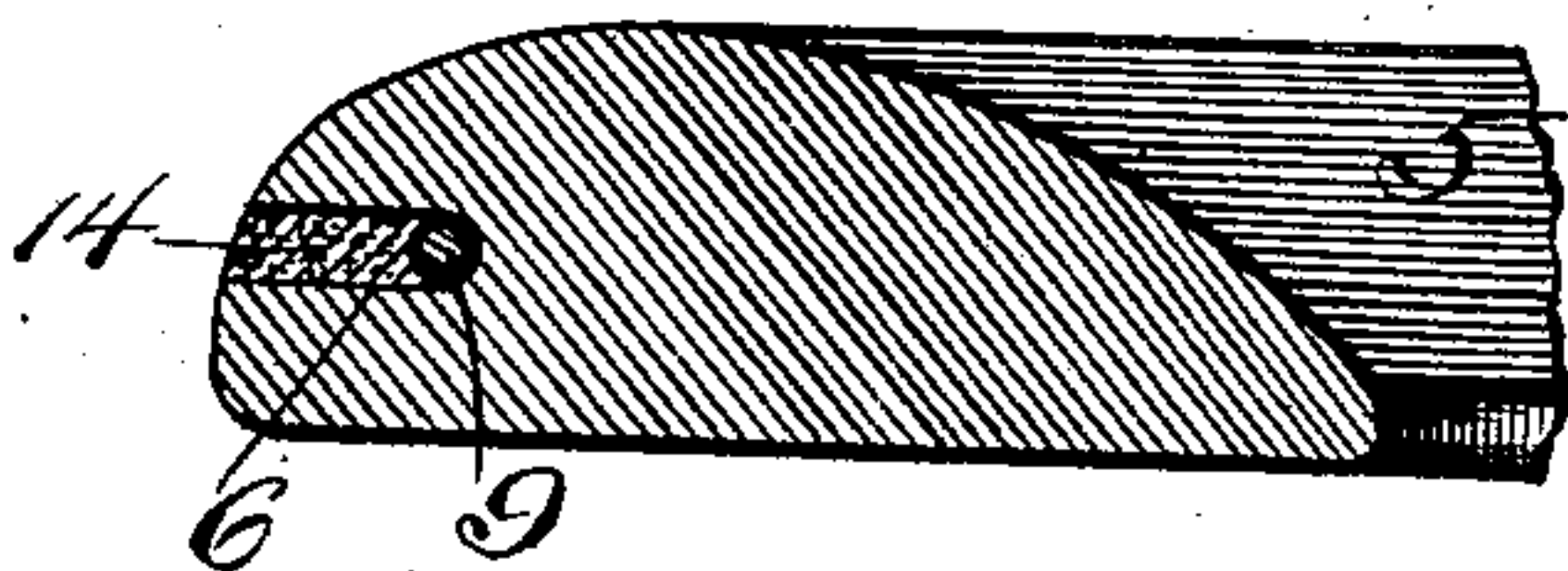
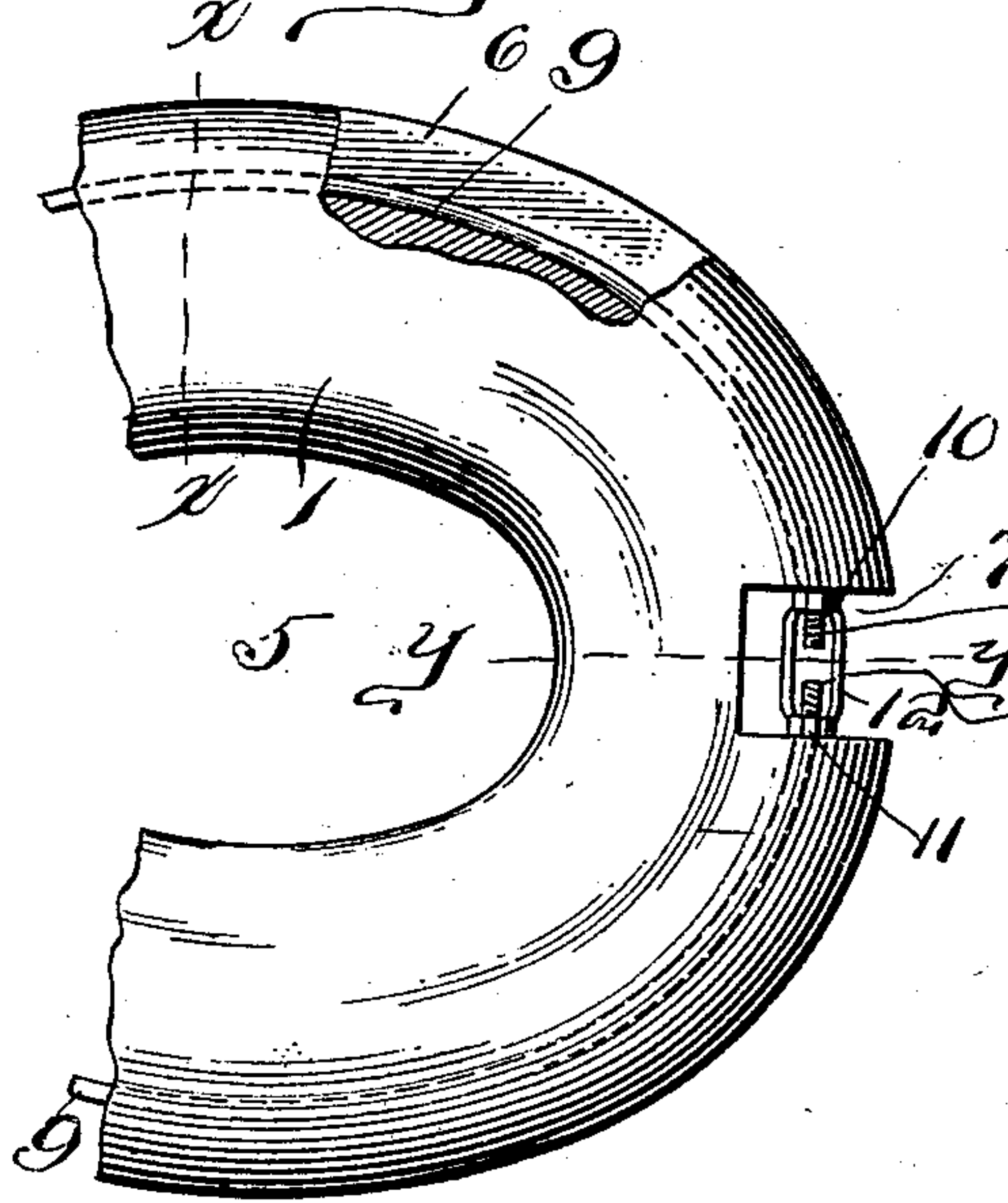


Fig. 4.

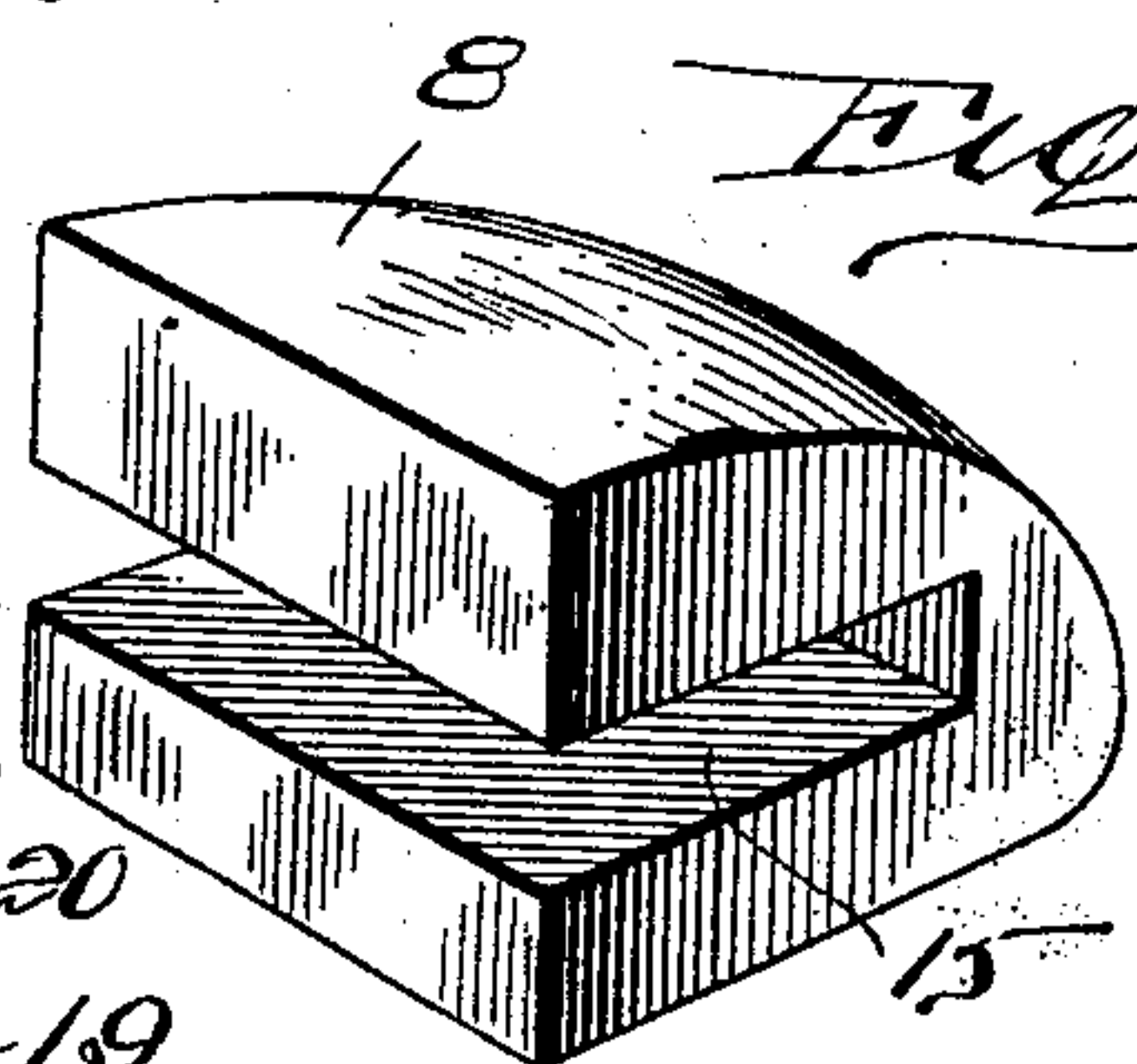


Fig. 6.

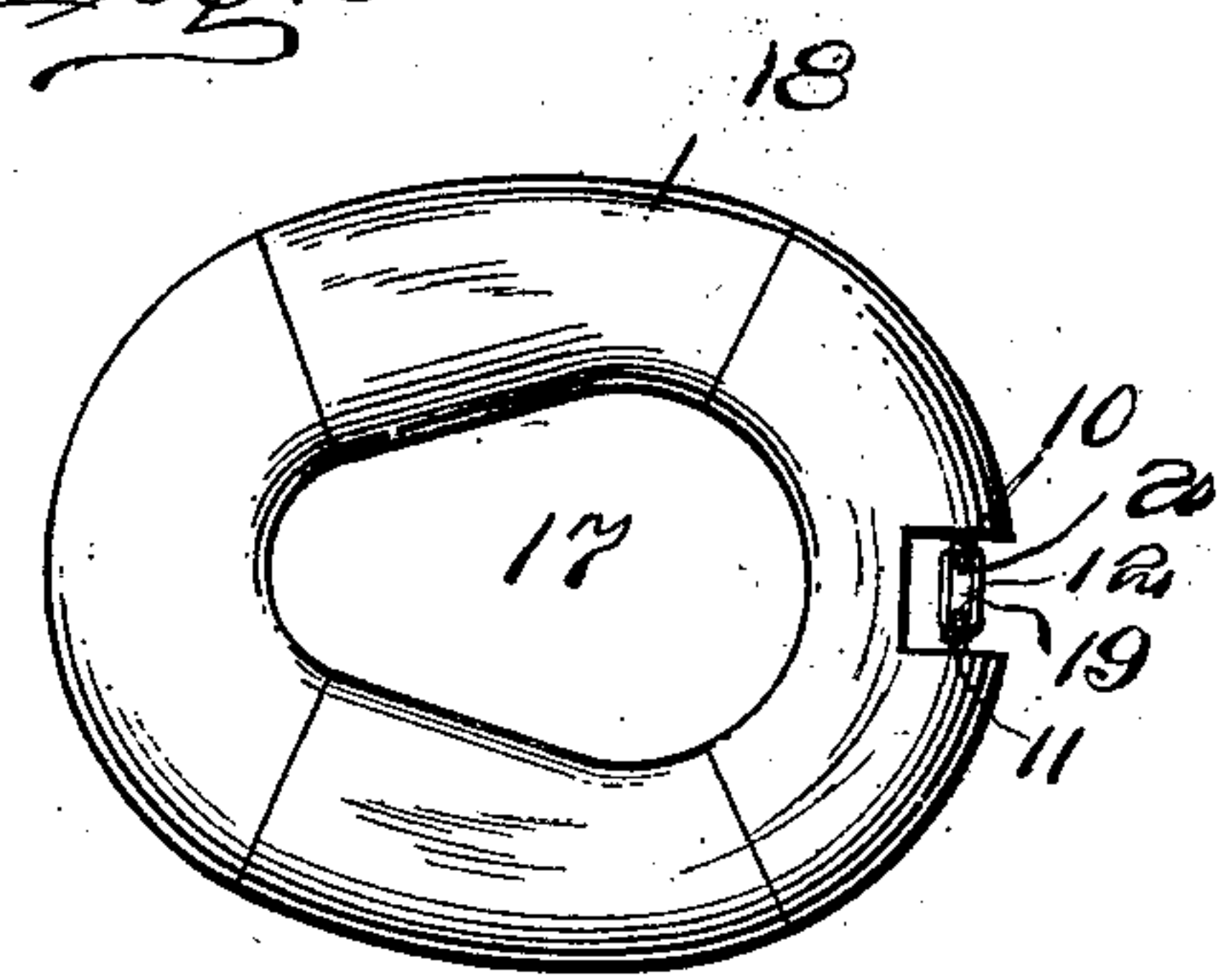
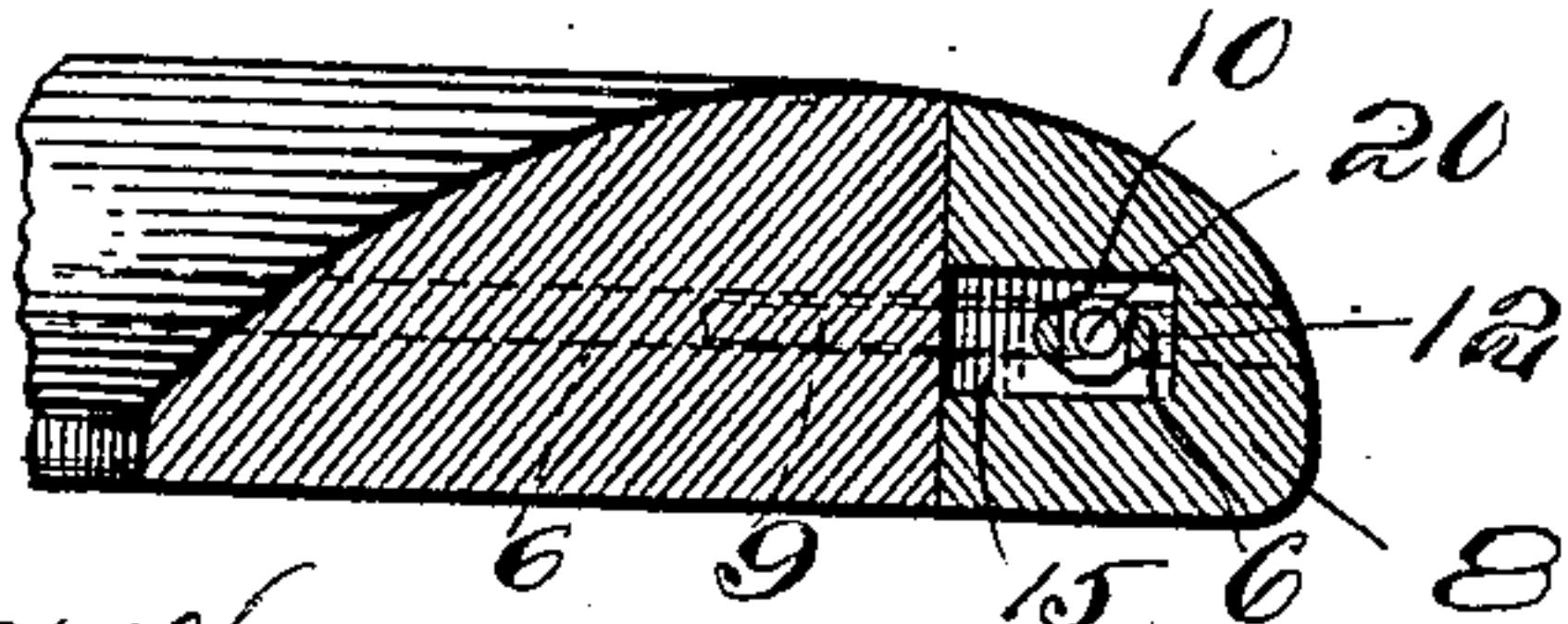


Fig. 5.



Witnesses

Samuel D. Payne

F. H. Cullen

Inventor

Frank H. Cullen.

by

H. C. Ewert & Co.

Attorneys

UNITED STATES PATENT OFFICE.

FRANK H. CULLEN, OF PITTSBURG, PENNSYLVANIA.

SEAT.

No. 886,115.

Specification of Letters Patent.

Patented April 28, 1908.

Application filed April 7, 1906. Serial No. 310,571.

To all whom it may concern:

Be it known that I, FRANK H. CULLEN, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Seats, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to certain new and useful improvements in seats, and the invention relates more particularly to a seat of a hopper or bowl used in toilet rooms and lavatories.

15 The primary object of this invention is the provision of novel means for preventing a wooden seat from splitting or cracking. To this end, I have devised a peripheral binding element which is adapted to compress the edges of a seat especially transversely of the grain of the seat and prevent the seat from splitting or cracking. The binding element which I employ consists of a wire, rod, or its equivalent, which is bound upon the edges of the seat, the ends of the wire or rod being adjustably connected together, whereby the tension upon the rod or wire can be increased at any time desired.

30 A particular feature of my invention resides in the novel manner in which I provide a seat with a peripheral binding element. In order that the seat may have its natural appearance, the wire or rod which surrounds the edges of the seat is embedded within the wood or material from which the seat is formed, and is in this manner unexposed and invisible.

40 The detail construction entering into my invention, will be hereinafter more fully described and claimed and referring to the drawing accompanying this application, like numerals of reference designate corresponding parts throughout the several views, in which:

45 Figure 1 is a perspective view of a seat of a hopper or bowl, the same being provided with a hinged lid, Fig. 2 is a fragmentary plan of the seat, Fig. 3 is a cross sectional view taken on the line $x-x$ of Fig. 2, Fig. 4 is a perspective view of a filler block used in connection with the seat, Fig. 5 is a cross sectional view taken on the line $y-y$ of Fig. 2, illustrating a filler block in position, Fig. 6 is

a plan of a section of the seat equipped with my improved binding element.

55 In the accompanying drawing, I have illustrated a conventional form of hopper or bowl seat 1, which is preferably constructed of wood and is provided with a smooth and polished surface. The seat is provided with hinged members 2 and 3 carrying a lid 4 adapted to close the central oval opening 5 of the seat 1, the hinged members and said lid also being of a conventional form.

60 My invention resides in providing the outer edges of the seat 1 with a peripheral groove 6, of considerable depth, while the rear edge of the seat is cut away as at 7, the cut away material being used as a filler block 8. In the peripheral groove 6 is placed a wire or rod 9 the one end of which is provided with right hand screw threads 10, while the opposite end is provided with left hand screw threads 11. The piece of wire or rod 9 is made of such a length that its ends will extend into the cut away portion 7 of the seat, where they are connected together by a turn buckle 12. After the rod or wire 9 has been drawn taut within the groove 6, to compress the material from which the seat is formed, the groove 6 is filled with putty 14, or similar material, whereby the wire or rod will be exposed and invisible, the edges of the seat having an appearance, when finished, as if the groove 6 had not been formed. The filler block 8 is recessed as at 15, whereby it may be fitted or replaced within the cut away portion 7 of the seat, and secured therein by glue or similar means, to render the turn buckle 12 invisible and unexposed. The recess 15 of the filler block 8 is adapted to accommodate the turn buckle 12 and when the entire seat has been painted and provided with a highly polished surface, it will be impossible to detect any part of the wire 9 or turn buckle 12, or that the filler block 8 had been separated from the seat 1.

90 In Fig. 6 of the drawings, I have illustrated a seat 17 as consisting of a plurality of sections 18, said sections being secured together by a rod or wire 19, and a turn buckle 20 similar to the seat 1. When a tight joint is formed between the sections 18 of the seat 16 and the seat painted and finished, it will be impossible to detect that the seat is made of a plurality of sections or pieces.

From the foregoing it will be observed that I have devised novel means for preventing a seat from splitting or cracking, also novel means for repairing a seat that has been
5 cracked, or split.

I do not care to confine myself to the type of seat in connection with which the wire or rod and turn buckle are used, and such changes, as are permissible by the appended
10 claims, may be resorted to without departing from the spirit and scope of the invention.

What I claim and desire to secure by Letters Patent, is:—

1. In combination with a hopper or bowl
15 seat, said seat having a peripheral groove formed therein, the rear edge of said seat having a cut out portion extending inwardly from the periphery of the seat to form a filler block, said filler block having a recess
20 formed therein and extending in the opposite direction from the peripheral groove, a wire mounted in said groove and having its ends adjustably connected together within the
25 recess of the filler block of said seat, the groove in said seat extending in a direction at right angles to the axis of the seat and being of a depth greater than the depth of

the wire extending therein, means to secure said filler block in said cut out portion of said seat, and means to close the groove in said
30 seat, substantially as described.

2. A reinforced seat comprising a seat portion having a cut out portion at a predetermined point in the periphery thereof, a peripheral groove formed in said seat, said
35 groove extending inwardly in a direction at right angles to the axis of the seat, the cut out portion of the seat being of greater depth than the depth of the groove, a filler block fitting within said cut out portion, said
40 block having a recess extending from the unexposed edges thereof and located on a plane corresponding with that of the groove of the seat, and a reinforcing wire adjustably
45 mounted within said groove and the recess, said groove being of greater depth than the thickness of the reinforcing wire.

In testimony whereof I affix my signature in the presence of two witnesses.

FRANK H. CULLEN.

Witnesses:

E. E. POTTER,

H. C. EVERT.