

(No Model.)

N. W. PRATT.  
HAND HOLE PLATE.

No. 565,504.

Patented Aug. 11, 1896.

Fig. 1.

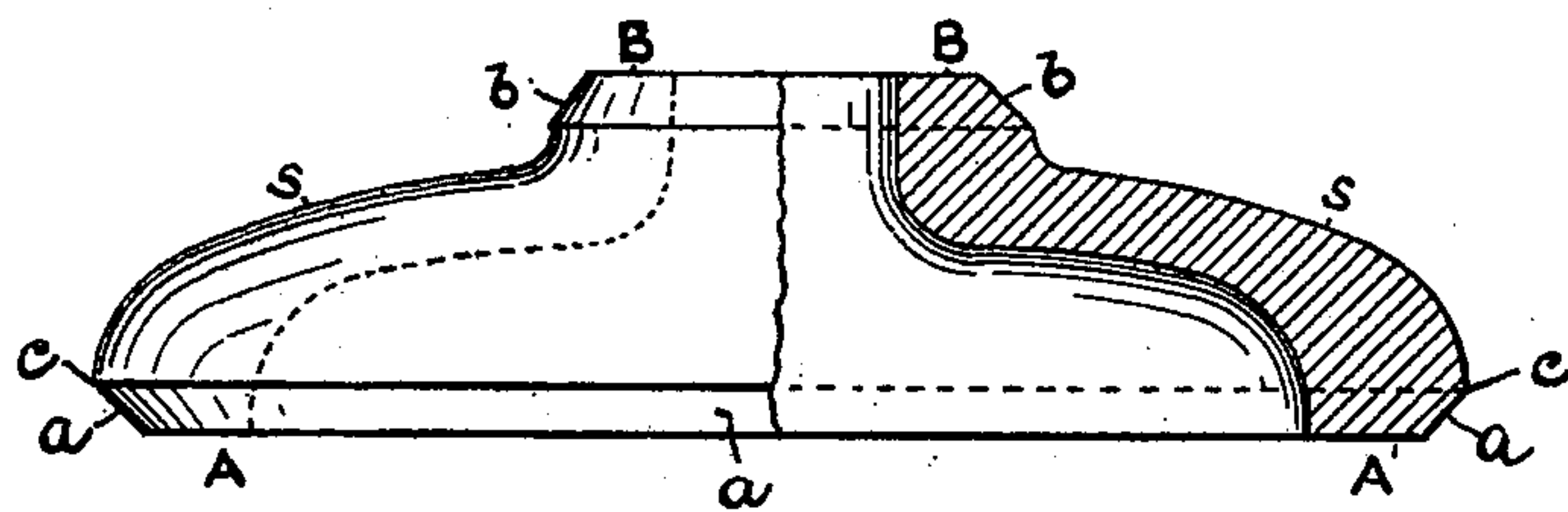


Fig. 2.

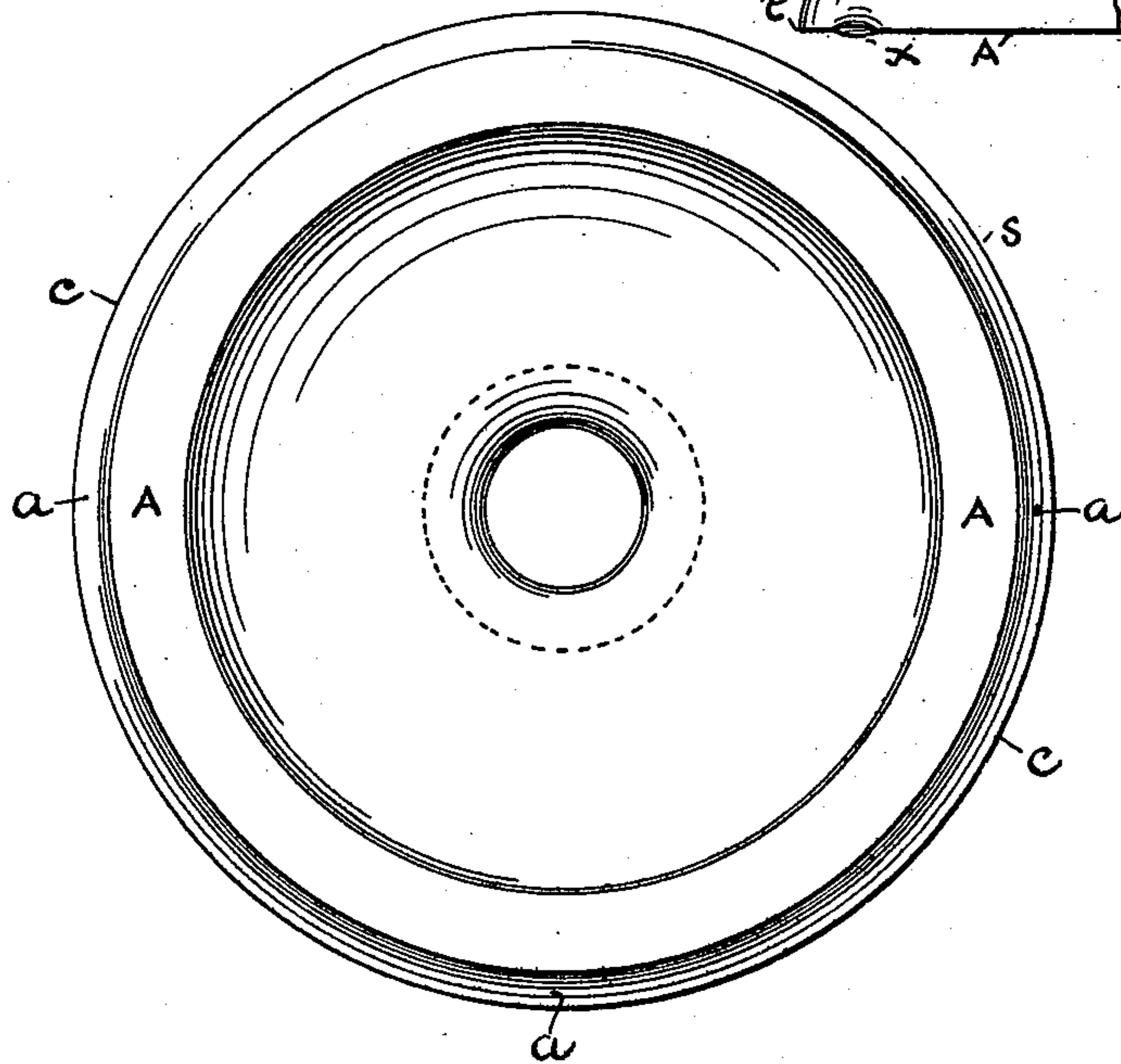
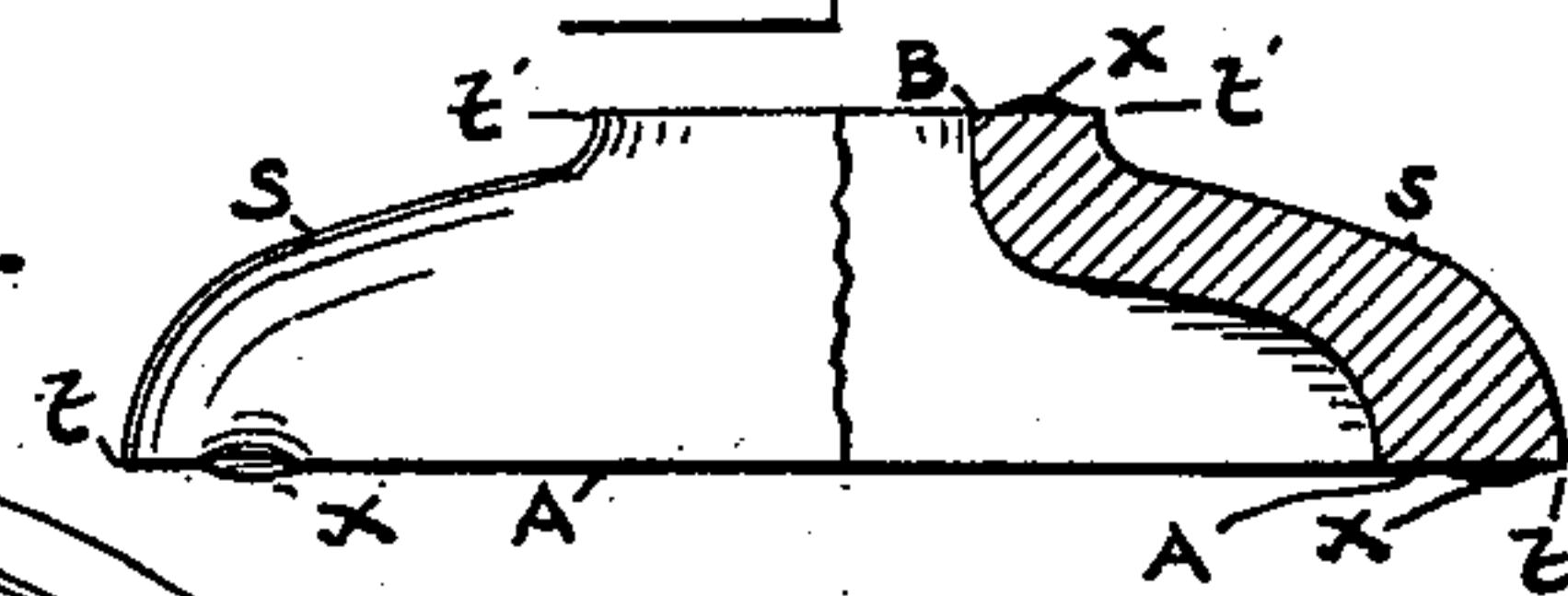


Fig. 3.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## HAND-HOLE PLATE.

SPECIFICATION forming part of Letters Patent No. 565,504, dated August 11, 1896.

Application filed November 23, 1895. Serial No. 569,895. (No model.)

*To all whom it may concern:*

Be it known that I, NAT W. PRATT, a citizen of the United States, residing in Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Hand-Hole Plates, of which the following is a specification.

In the handling of finished hand-hole plates for steam-generators, &c., both before application and during temporary removals of such plates, when they are constructed as usual with the hole-seat and nut-seat at right angles to the adjoining exterior or slant-height surface, considerable trouble has been experienced from damage to such seats or faces by the dropping of the plates and the striking of the same on the edges of the seats, thereby raising a portion of the seats and requiring the same to be refaced.

The object of the invention is to avoid the liability to such damage, as far as possible, by so constructing the plate as to protect such seats.

In the accompanying drawings, Figure 1 represents in partial side view and in partial section a hand-hole plate embodying the invention. Fig. 2 shows a rear view of the same. Fig. 3 represents in partial side view and in partial section, on a smaller scale, a hand-hole plate of the common form, on which portions of the seats have been upset or raised, due to droppings or falls of the plate.

In the common form of plate (shown in Fig. 3) the exterior or slant-height surface *s* joins the hand-hole seat or face *A* of the plate, as well as the nut seat or face *B* thereof, at substantially right angles, so that sharp edges *t t'* are present all around said seats. Experience has shown that where such plates are accidentally dropped or fall, they not infrequently strike on one of such edges, particu-

larly on that surrounding the seat *A*, thereby denting the edge and raising or upsetting a portion of the seat, as indicated at *x*. Before the plate can be applied, therefore, the affected seat must be refaced or dressed off, in order that a steam-tight fit may be had on the seat *A*, or a proper fit for the nut on the face *B*.

In my improved form of plate (shown in Figs. 1 and 2) the old sharp edges surrounding the seats are done away with by generously beveling the edges, as at *a* and *b*, respectively. It has been found that, by constructing the plates as described, the liability of an injury to the seats *A* and *B* is very largely avoided, and that the plates when dropped will almost always strike on the edge *c* and the seats *A* and *B* be undisturbed by the fall. In fact nearly the whole surfaces of the bevels *a* and *b* act as protections to the respective seats, so that the latter are rarely injured, and about all the time and expense heretofore required to reface the seats is saved. The improved plate, therefore, is greatly superior to the old form, and is no more expensive to manufacture.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. As an improved article of manufacture, a hand-hole plate having its hole seat or face surrounded by a beveled portion extending outwardly from said seat, substantially as set forth.

2. The improved hand-hole plate herein described having its hole seat or face and its nut seat or face respectively surrounded by beveled portions extending outwardly from said seats, substantially as set forth.

NAT W. PRATT.

Witnesses:

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CHAS. HAUSMANN.