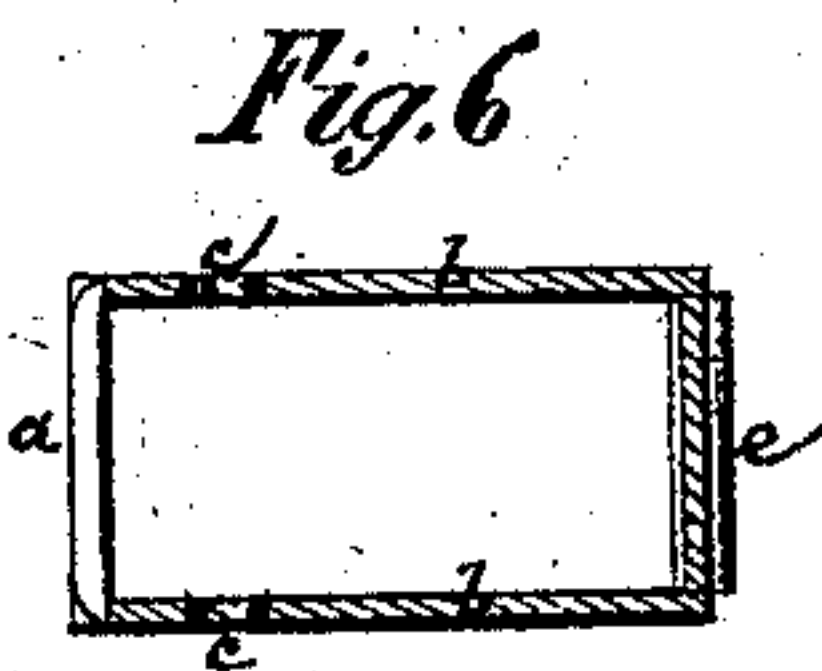
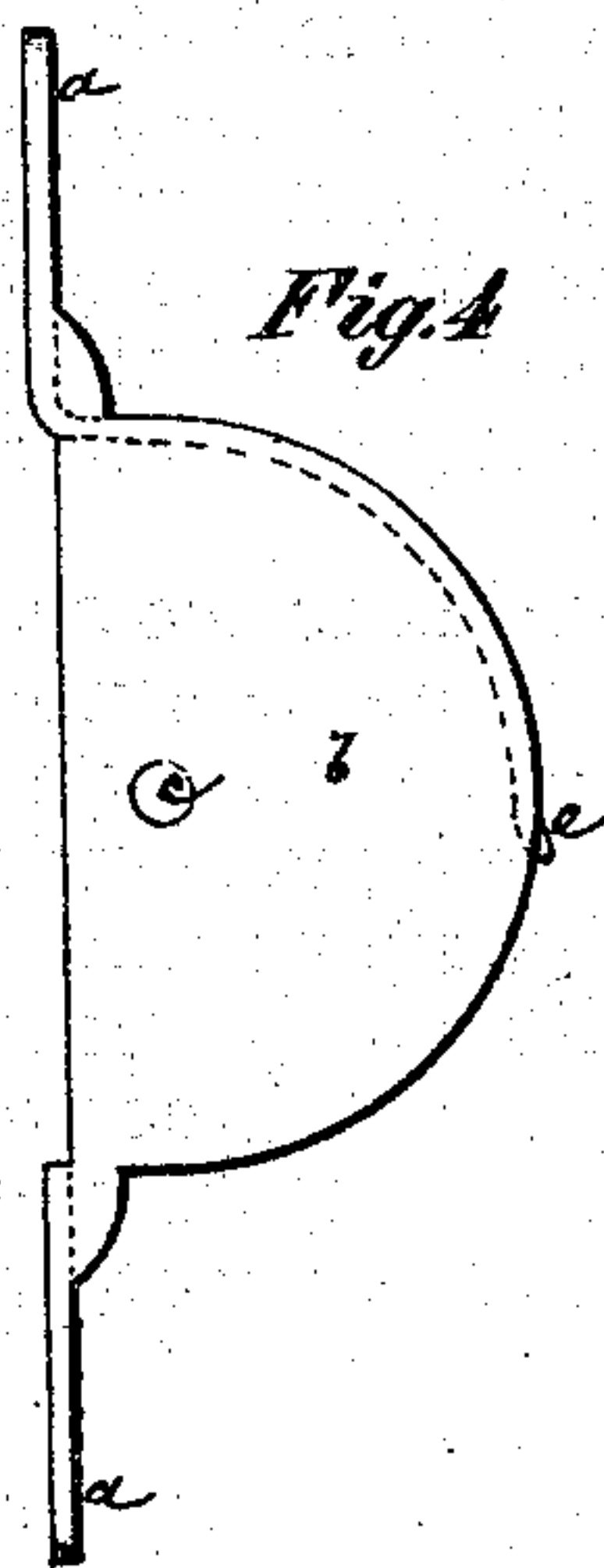
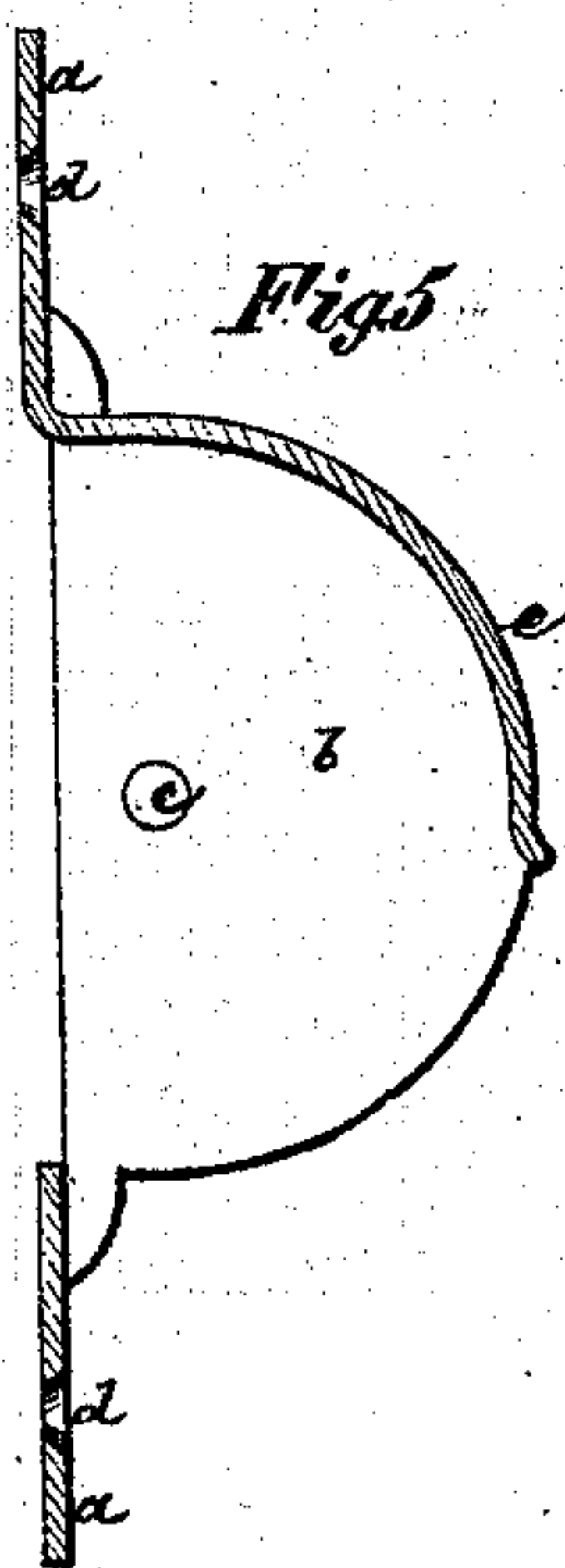
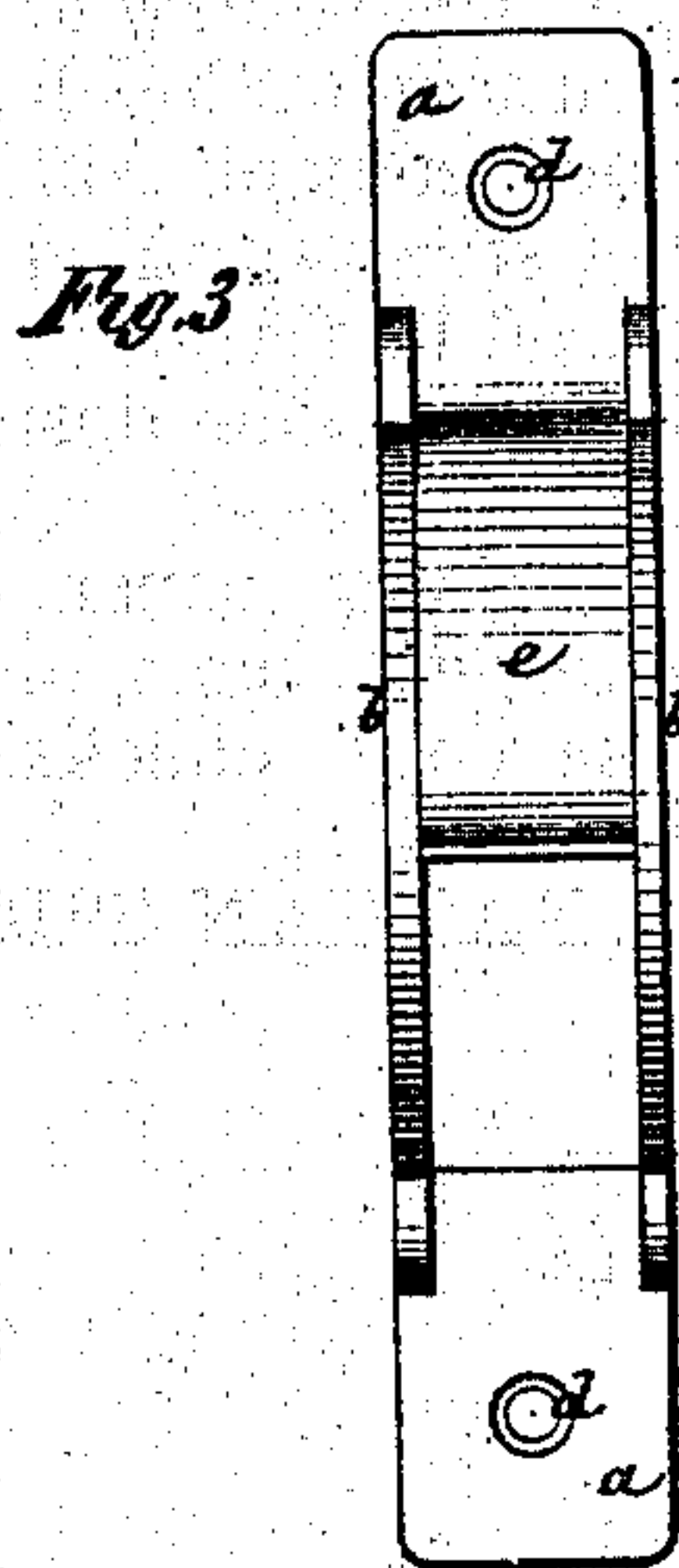
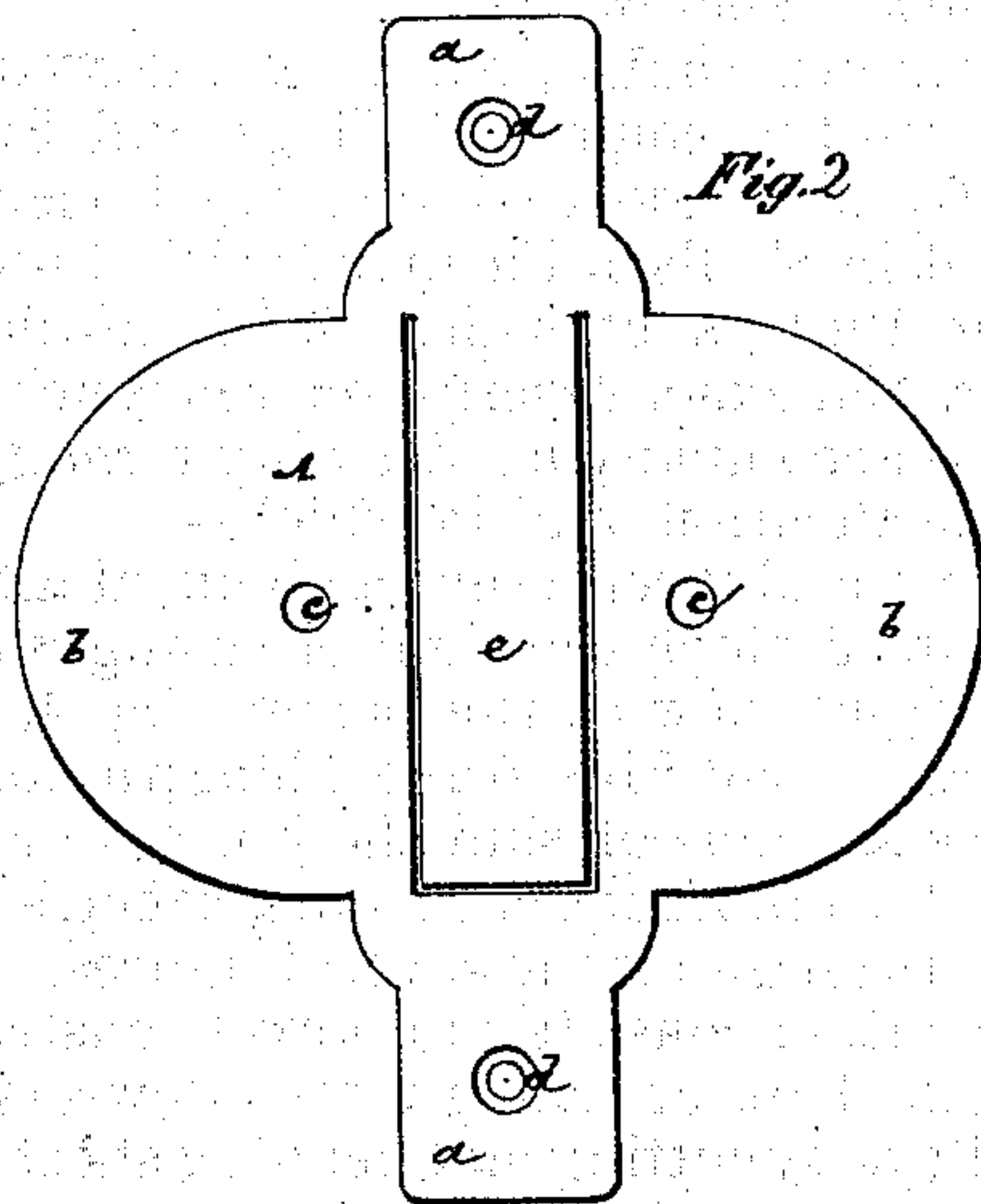
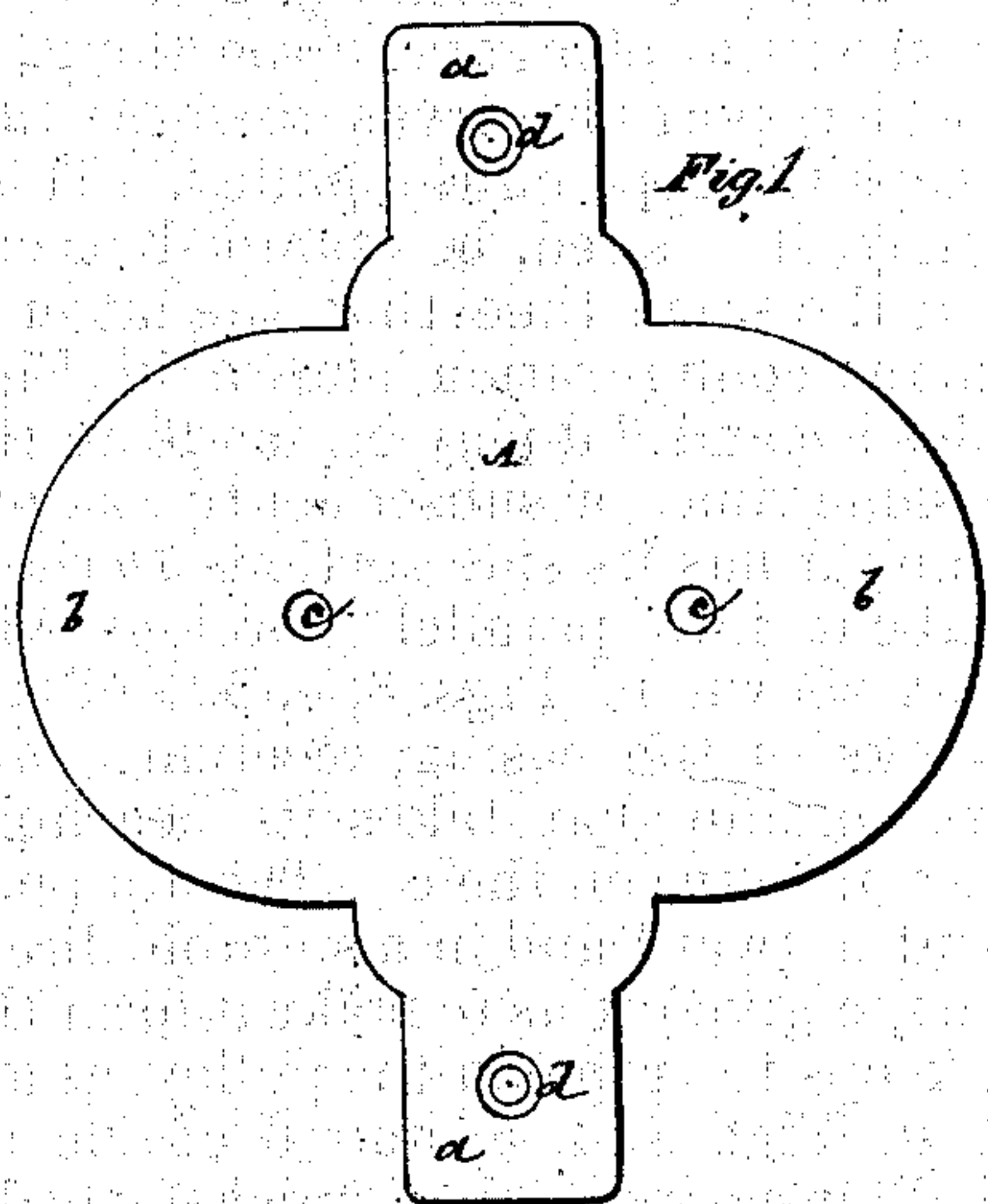


Nathan Thompson, Imp^{tn} in Shells or Casings for Window Sash & other Pulleys

[45.]

No. 119,199.

Patented Sep. 19, 1871.



Witnesses:
Thos. Haines
R. A. Rabe

Nathan Thompson

UNITED STATES PATENT OFFICE.

NATHAN THOMPSON, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN CASINGS FOR WINDOW-PULLEYS.

Specification forming part of Letters Patent No. 119,199, dated September 19, 1871; antedated September 2, 1871.

To all whom it may concern:

Be it known that I, NATHAN THOMPSON, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Shells or Casings for Window-Sash and other Pulleys, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figures 1 and 2 represent a blank, at different stages, out of which the shell or casing is made; Fig. 3, a front view of the same; Fig. 4, a side view thereof; and Figs. 5 and 6 longitudinal and transverse sections of said shell or casing.

Similar letters of reference indicate corresponding parts throughout the several figures.

My invention consists in a novel construction of the box, shell, or casing for window-sash and other pulleys by cutting and bending sheet metal so as to form out of one and the same piece both the supporting ends by which the casing is seated and secured to its place, the sides which carry the pivot or spindle of the pulley, and the guard that serves to keep the rope on the pulley. A pulley-shell or casing may thus be made with great rapidity and cheapness, is lighter and less liable to fracture than a cast-metal one, and has no riveting or fastening of detached parts together.

Referring to the accompanying drawing, A in Fig. 1, represents the blank as it first appears when cut or stamped out of a plate of sheet metal, being made with ends *a a*, which serve to form the supporting ends of the shell or case, and with side portions *b b*, which constitute the cheeks or sides thereof; also, having holes *c c* in it for the pivot or spindle of the pulley to fit or work in, and with screw-holes *d d* for securing

the case to its place. A, in Fig. 2, shows the same blank but with an elongated lip portion, *e*, stamped in it, which portion serves to form the guard that keeps the rope on the pulley. This lip portion *e* may, if desired, be stamped or cut in the blank at the same time that the latter receives its general configuration, shown in Fig. 1, and the holes *c c* and *d d* may be made in the blank at the same time, or subsequently, as preferred. The blank A has its side portions *b b* then turned up or bent into parallel positions with each other, as shown in Figs. 3, 4, 5, and 6, to form the cheeks of the casing, receiving the pulley with its spindle that takes its bearings in the holes *c c* in between them. The lip portion *e* is also bent outward and in a suitable direction, or such shape given it as to make it form the guard which keeps the rope on the pulley, as also illustrated in Figs. 3, 4, 5, and 6 of the drawing. The shell or casing is then finished ready for insertion of the pulley, or the latter with its spindle may be placed simultaneously with the turning up or bending of the sides *b b*.

The stamping or cutting of the blank and bending of it, as described, may be done by means of presses and suitable stamps, punches, and dies, or in any other desired manner.

What is here claimed, and desired to be secured by Letters Patent, is—

A pulley-shell or casing, constructed from a blank of sheet metal, cut, bent, and shaped to form the supporting ends, cheeks, and guard, substantially as specified.

NATHAN THOMPSON.

Witnesses:

R. E. RABEAU,
FRED HAYNES.