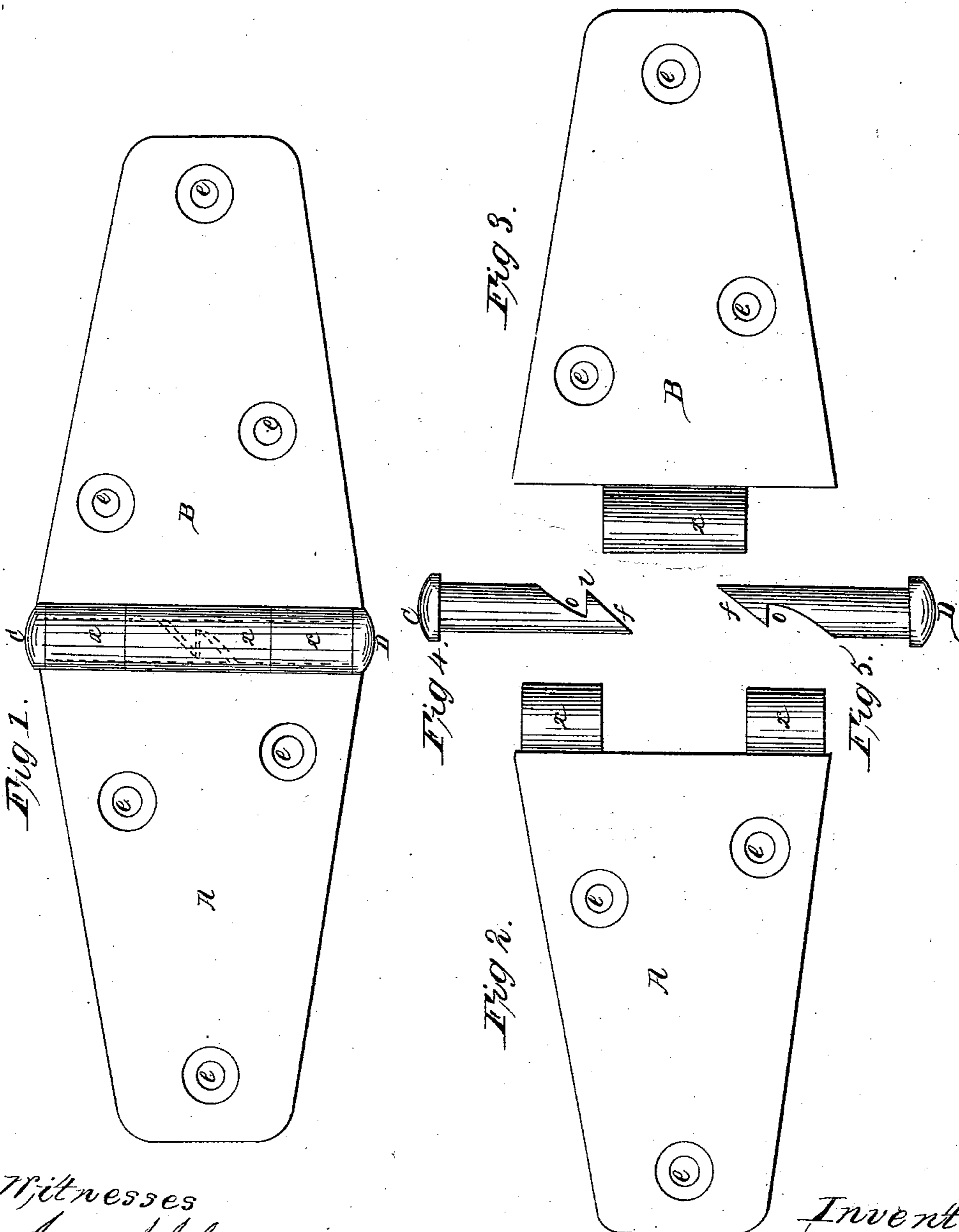


W. Shannon,

Hinge.

N<sup>o</sup> 84,772.

Patented Dec. 8, 1868.



Witnesses  
James Johnston  
A. C. Johnston

Inventor  
Wm. Shannon

# UNITED STATES PATENT OFFICE.

WILLIAM SHANNON, OF ALLEGHENY CITY, ASSIGNOR TO HIMSELF AND  
JOSEPH GRAFF, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. 84,772, dated December 8, 1868.

*To all whom it may concern:*

Be it known that I, WILLIAM SHANNON, of the city and county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in Hinges; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing strap-hinges with a pintle made in two parts, each part being provided with a hooked end, and so constructed that the parts will lock together in the knuckled joint of the hinge.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification, Figure 1 is a face view of an ordinary strap-hinge provided with my improved pintle. Figs. 2 and 3 are face views of the two parts of an ordinary strap-hinge. Figs. 4 and 5 are side views of the two parts of my improved pintle.

In the drawings, A and B represent the straps or wings of the hinge. These two parts are made in any of the known forms, by any known means, and of the ordinary material—viz., wrought-iron.

*x* represents the different parts of the knuckle. *e* represents openings or screw-holes.

C and D represent the two parts of the pintle, the points *f* of which are beveled or inclined, and notched out at *o*, so as to form

hooks *i*. The form of said inclined or beveled points and the notches and hooks are clearly shown in Figs. 4 and 5. The outer ends of the parts C and D of the pintle are provided with heads, the diameter of which is equal to the diameter of the knuckle-joint *x*.

The straps A and B are placed together so that the parts which form the knuckle-joint *x* are in juxtaposition. The parts C and D of the pintle are then arranged in the knuckle-joint *x* so that the beveled or inclined faces of the points *f* will come close together. The two parts are then forced together until they become locked together, as represented by the dotted lines in Fig. 1. The part of the knuckle-joint *x* is then properly set around the pintle.

The advantage of my improvement consists in producing, through the medium of a pintle made in two parts, as herein described, a cheap hinge with a free, smooth, and true joint without the tedious, troublesome, and costly process of riveting or heading the ends of the pintle.

Having thus described the nature, construction, and advantage of my improvement, what I claim as of my invention is—

Providing hinges with a pintle, C and D, made in two parts, the inner ends of which are beveled off at *f*, and provided with hooks *i*, substantially as herein described, and for the purpose set forth.

WM. SHANNON.

Witnesses:

A. C. JOHNSTON,  
JAMES J. JOHNSTON.