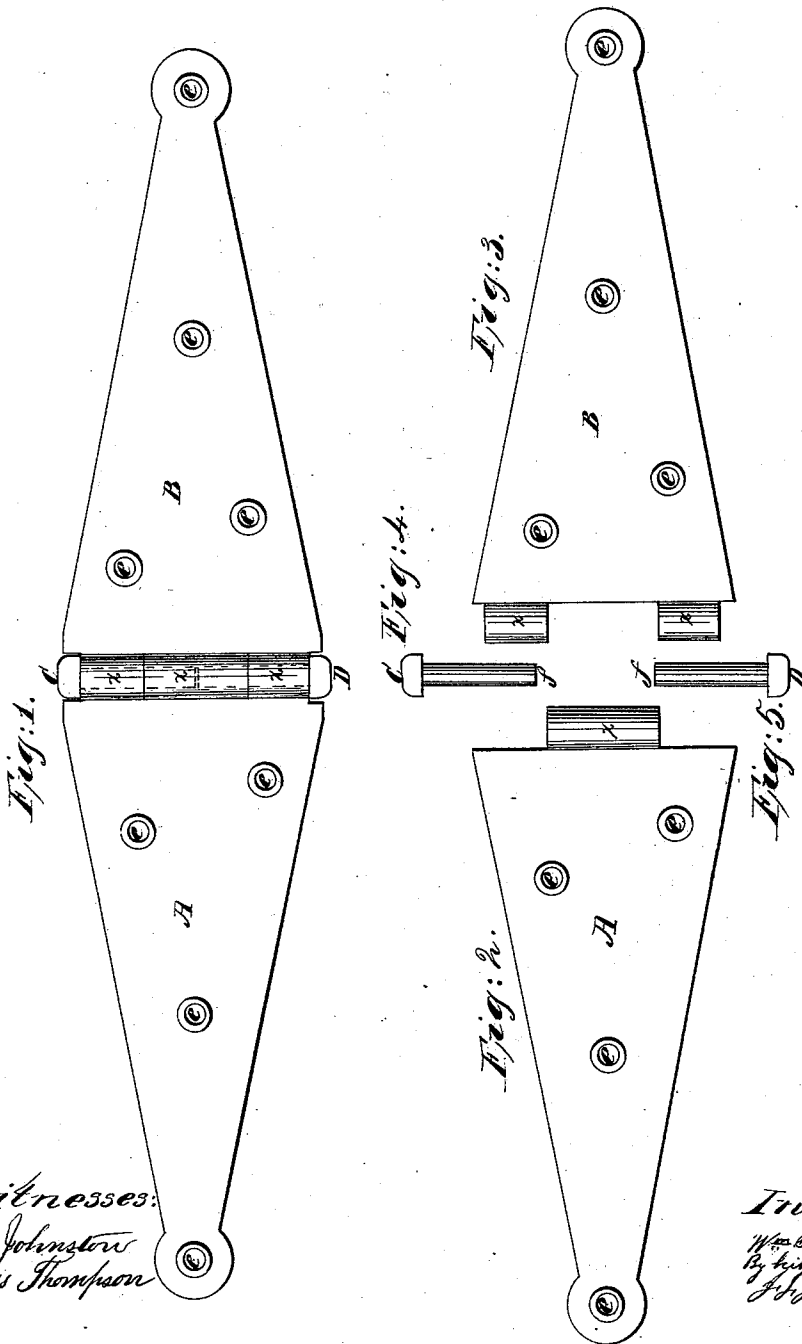


W. Shannon,

Hinge.

N^o 84,771.

Patented Dec. 8, 1868.



Witnesses:
J. C. Johnston
James Thompson

Inventor:
W. Shannon
By his attorney
J. C. Johnston

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. 81,771, 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 hinges with a pintle made in two parts, and in securing the same in the knuckle-joint in the manner hereinafter described.

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 the 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.

The two parts C and D of the pintle are made in the form represented in Figs. 4 and 5.

One of the points, *f*, may be split, and the other made wedge-shaped, so that it will enter the split point and spread it, so that the two

points become coupled together, and thereby hold the two parts of the pintle in the knuckle-joint *x* of the hinge.

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 end of the points *f* will come close together. The two parts are then forced together until the ends become slightly swelled. The part *x'* 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 a hinge with a pintle consisting of parts C and D, the inner ends of which are upset, in the manner herein described, and for the purpose set forth.

WM. SHANNON.

Witnesses:

A. C. JOHNSTON,
JAMES J. JOHNSTON.