

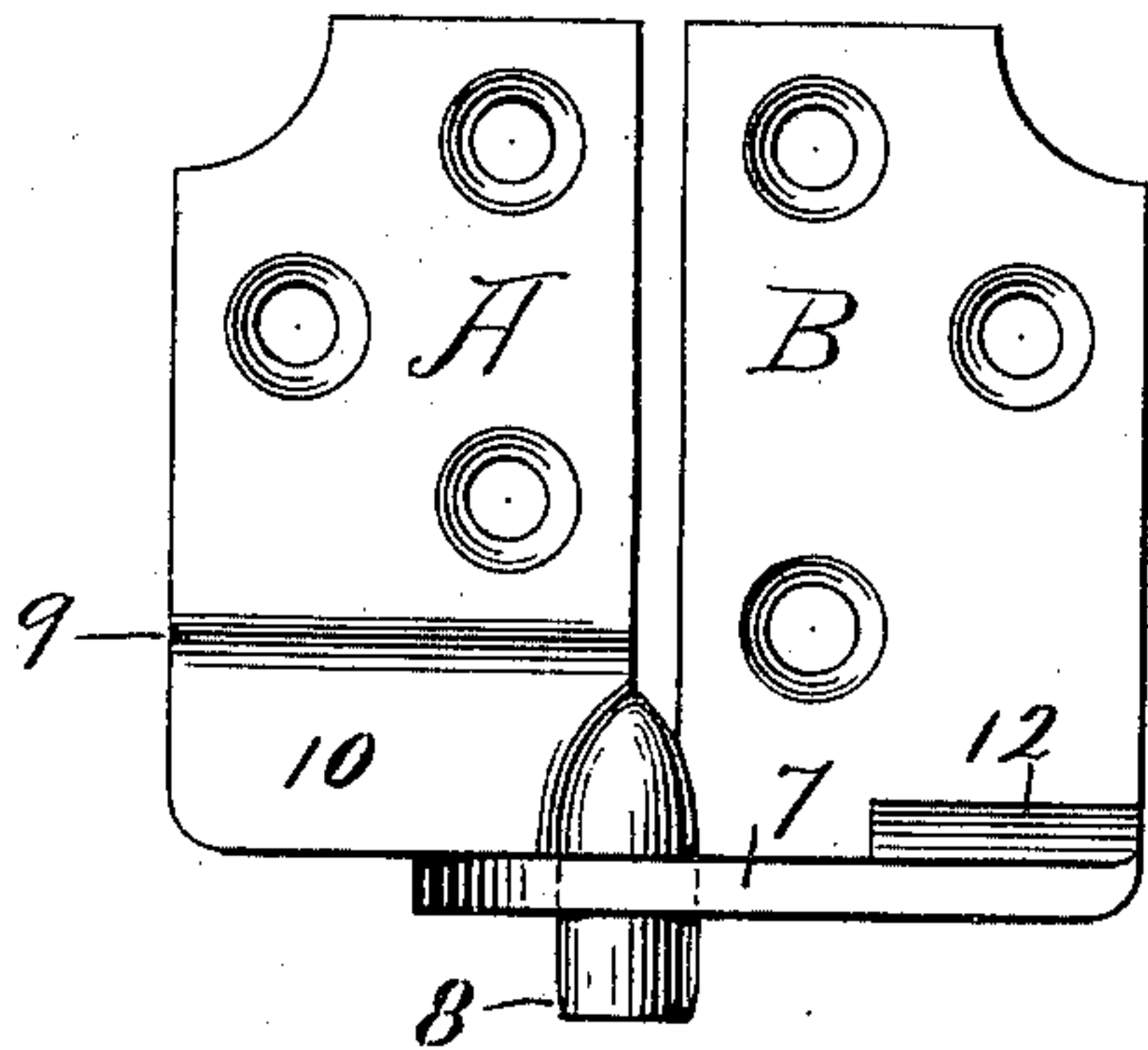
(No Model.)

T. CORSCADEN.  
LOCK HINGE.

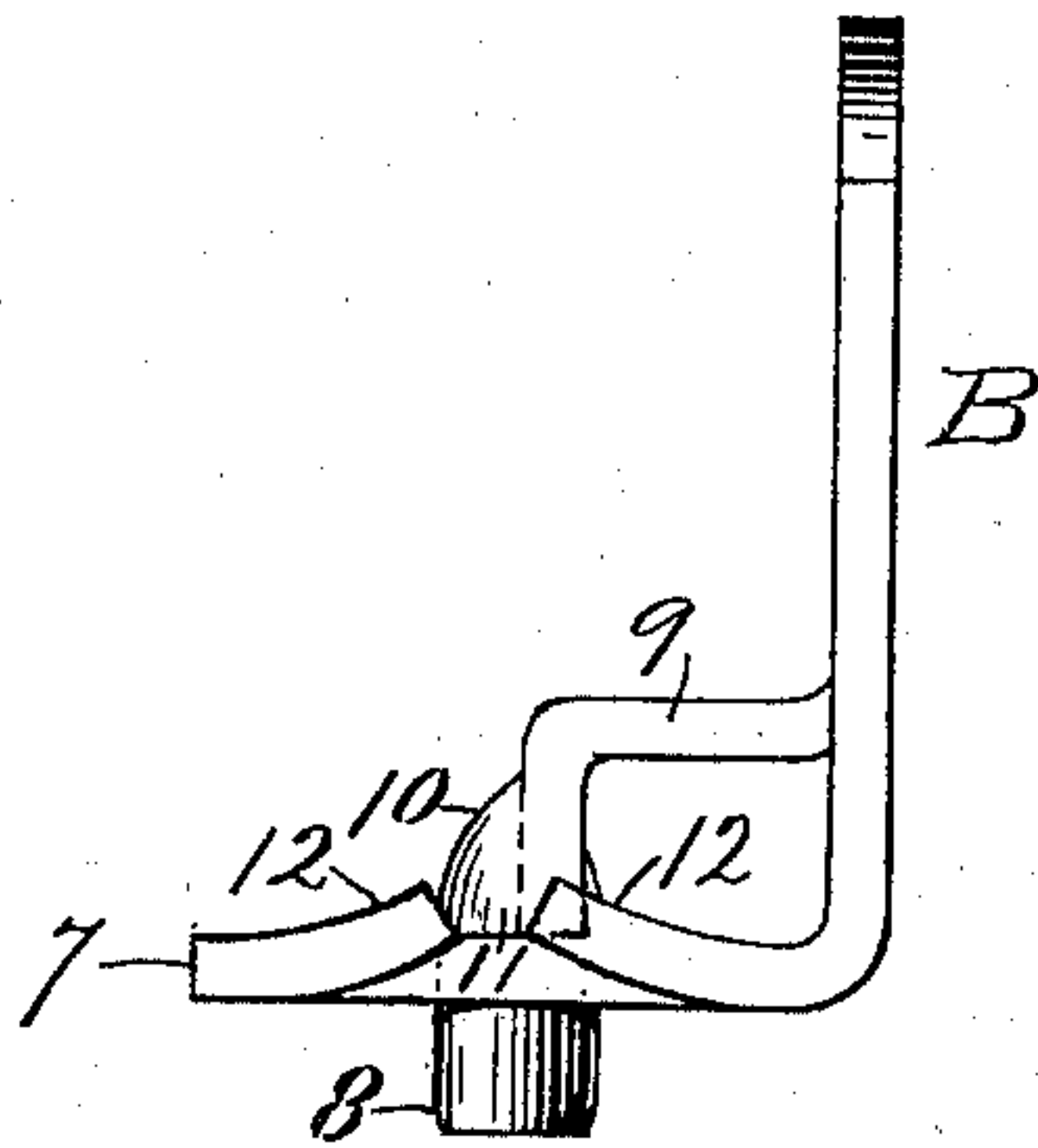
No. 598,215.

Patented Feb. 1, 1898.

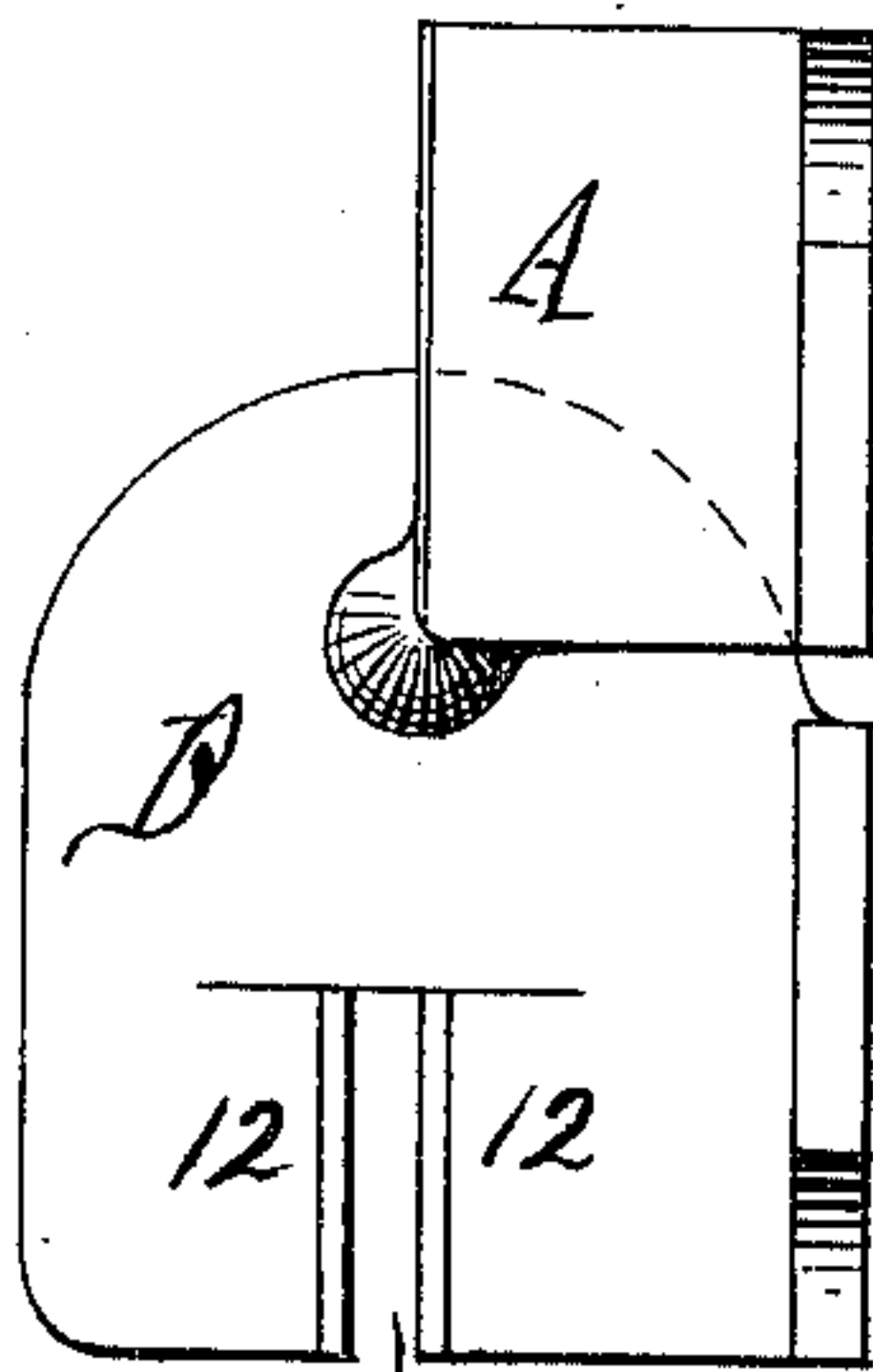
*Fig. 1.*



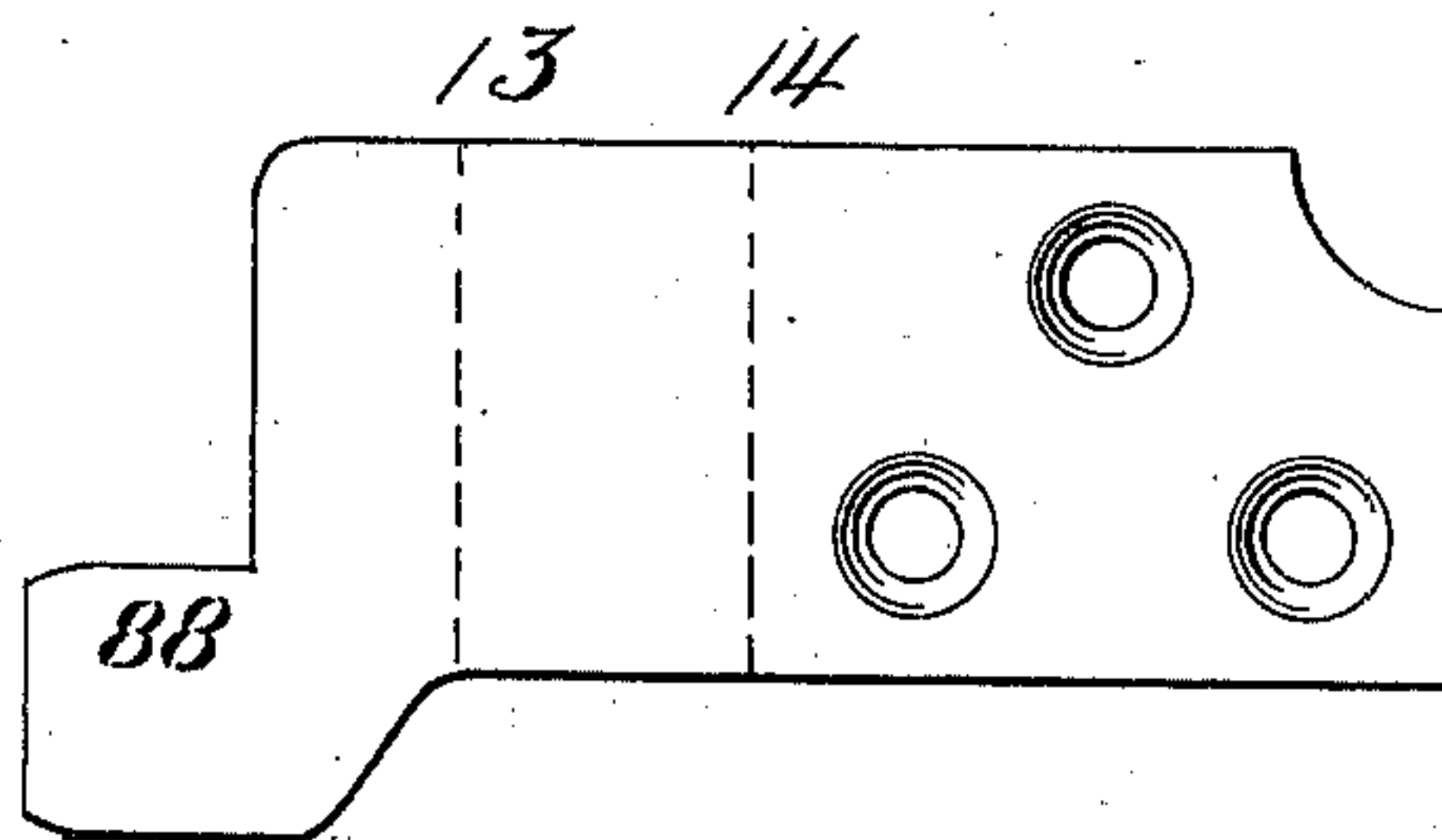
*Fig. 2.*



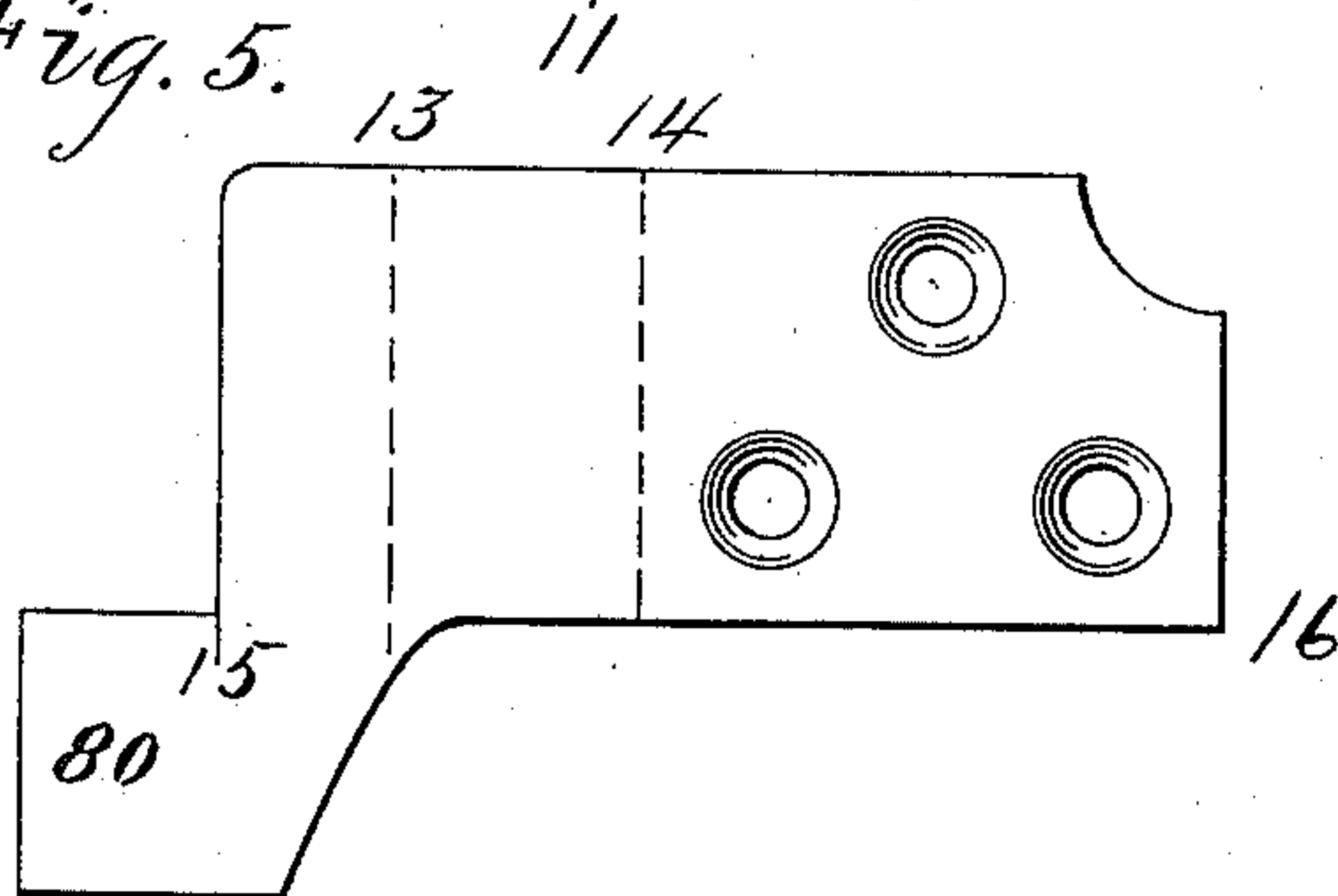
*Fig. 3.*



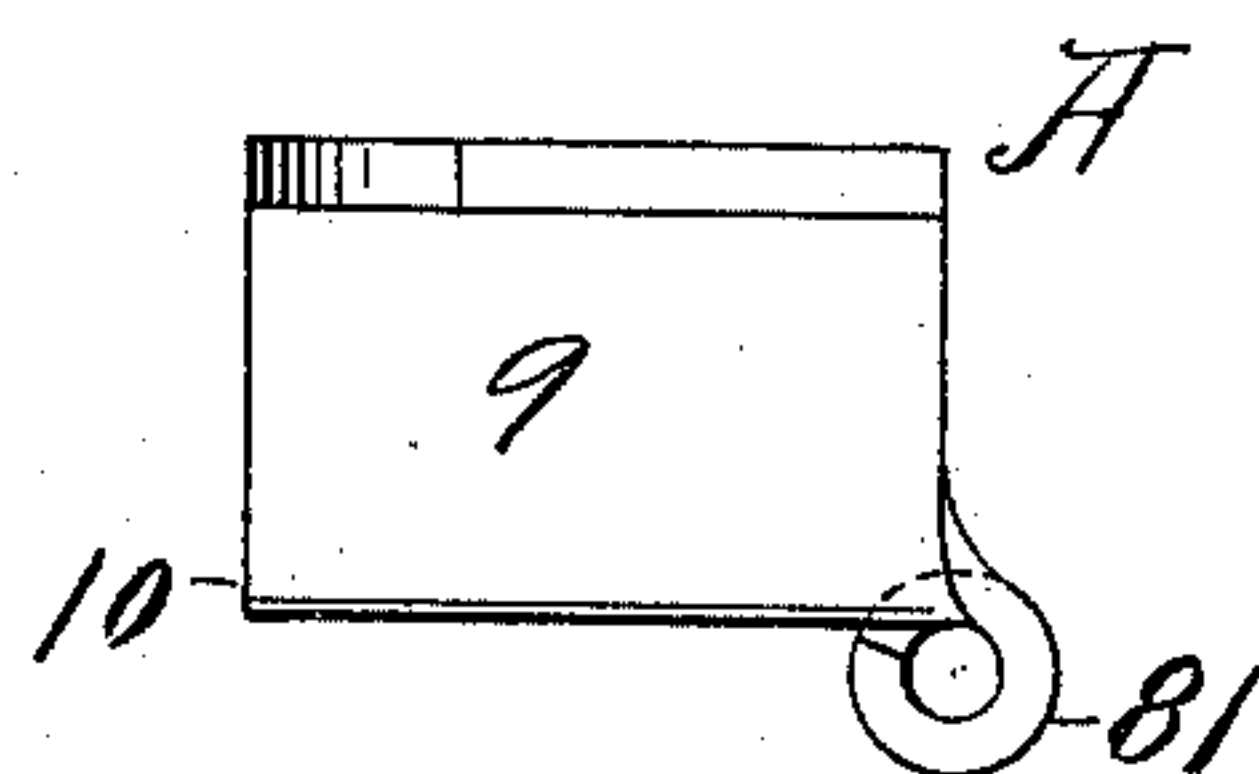
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



Witnesses  
G. W. Stipek  
T. H. Griswold.

Inventor  
Thomas Corscaden.  
By James Shepard.  
Atty.



# UNITED STATES PATENT OFFICE.

THOMAS CORSCADEN, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE  
STANLEY WORKS, OF SAME PLACE.

## LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 598,215, dated February 1, 1898.

Application filed May 20, 1893. Serial No. 474,925. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS CORSCADEN, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Sheet-Metal Hinges, of which the following is a specification.

My invention relates to improvements in sheet-metal hinges of the class more particularly adapted for blind or shutter hinges; and the objects of my improvement are cheapness of construction and efficiency of the article.

In the accompanying drawings, Figure 1 is a front elevation of a pair of my hinges. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view. Fig. 4 is a plan view of the blank from which the pintle-bearing leaf is formed. Fig. 5 is a plan view of a blank for forming the pintle-bearing leaf in a slightly-modified form, and Fig. 6 is a plan or top view of the complete pintle-bearing leaf as formed therefrom.

A designates the pintle-bearing leaf; B, the companion leaf, having a perforated wing 7, into which the pintle 8 of the leaf A is received. I prefer to form on the leaf A an offset 9, from which depends a vertical wing 10. The wing 7 of the leaf B is slotted, as at 11, Figs. 2 and 3, and the metal immediately upon each side of this slot is bent upwardly to form inclines or cams 12, thereby making the slot 11 in a higher plane than is the body of said wing 7. This slot 11 is designed to receive the lower edge of the vertical wing 10 when the hinge-leaves are swung open and lock the same in place, the said wing riding up one of said inclines to lift the blind and then dropping down into said slot. This class of hinges, when formed of sheet metal, have generally been provided with flat pintles. In my present invention I form the round pintle 8 integral with the sheet-metal hinge-leaf. In the preferred form I make the blank substantially as shown in Fig. 4, in which 88 designates the pintle-blank, and the broken lines 13 and 14 designate the lines of transverse bends for forming the offset 9 and vertical wing 10. This blank is placed in suitable dies having a recess to receive the body of the leaf and round recesses or cavities for forming the pintle, and the dies are brought together so as to swage the pintle-

blank 88 in an edgewise direction and change its form from that shown in Fig. 4 to the integral round pintle shown in Figs. 1, 2, and 3, said pintle being solid throughout and of a diameter about three times that of the thickness of the leaf upon which it is formed.

In Figs. 5 and 6 I have shown a blank and hinge-leaf for a rolled pintle instead of a solid pintle. This blank is for forming substantially the same form of hinge-leaf A with the offset 9 and vertical wing 10, the same being formed by bending on the lines 13 and 14, as before described. The pintle-blank 80 is preferably slit slightly, as at 15, and all that portion of the blank which projects beyond the inner edge 16, Fig. 5, of the hinge-blank is rolled into a cylindrical form to form the round pintle 81, Fig. 6. This specific construction is, however, made the subject of my application, Serial No. 475,228, filed May 23, 1893. By both of these constructions I am enabled to produce a hinge in which the leaves are attachable and detachable to and from each other, while they are both formed from plate or sheet metal, with one leaf having the integral round pintle, which is received in the perforated wing of the companion leaf.

I claim as my invention—

The herein-described sheet-metal hinge consisting of the leaf B having the horizontal wing 7 provided with a round pintle-hole, and the upturned inclines or cams 12 with the elevated locking-slot 11 between their edges, in combination with the pintle-bearing leaf A cut and bent from sheet metal, the offset portion 9 extending outwardly from one end of the said leaf A, the vertical wing 10 depending from the outer edge of the said offset portion with its lower edge adapted to engage the top face of said horizontal wing 7, and an integral pintle, fitted to the round hole edge in the horizontal wing 7, extending from the lower edge of the said vertical wing 10, and being mainly below said lower edge, the diameter of the said pintle materially exceeding the thickness of the metal of which the said leaf A is formed, substantially as described.

THOMAS CORSCADEN.

Witnesses:

FRANK H. MARSH,  
E. A. MERRIAM.