

No. 753,053.

PATENTED FEB. 23, 1904.

A. H. EBERHARDT.

JOIST HANGER.

APPLICATION FILED JULY 10, 1903.

NO MODEL.

Fig. 1.

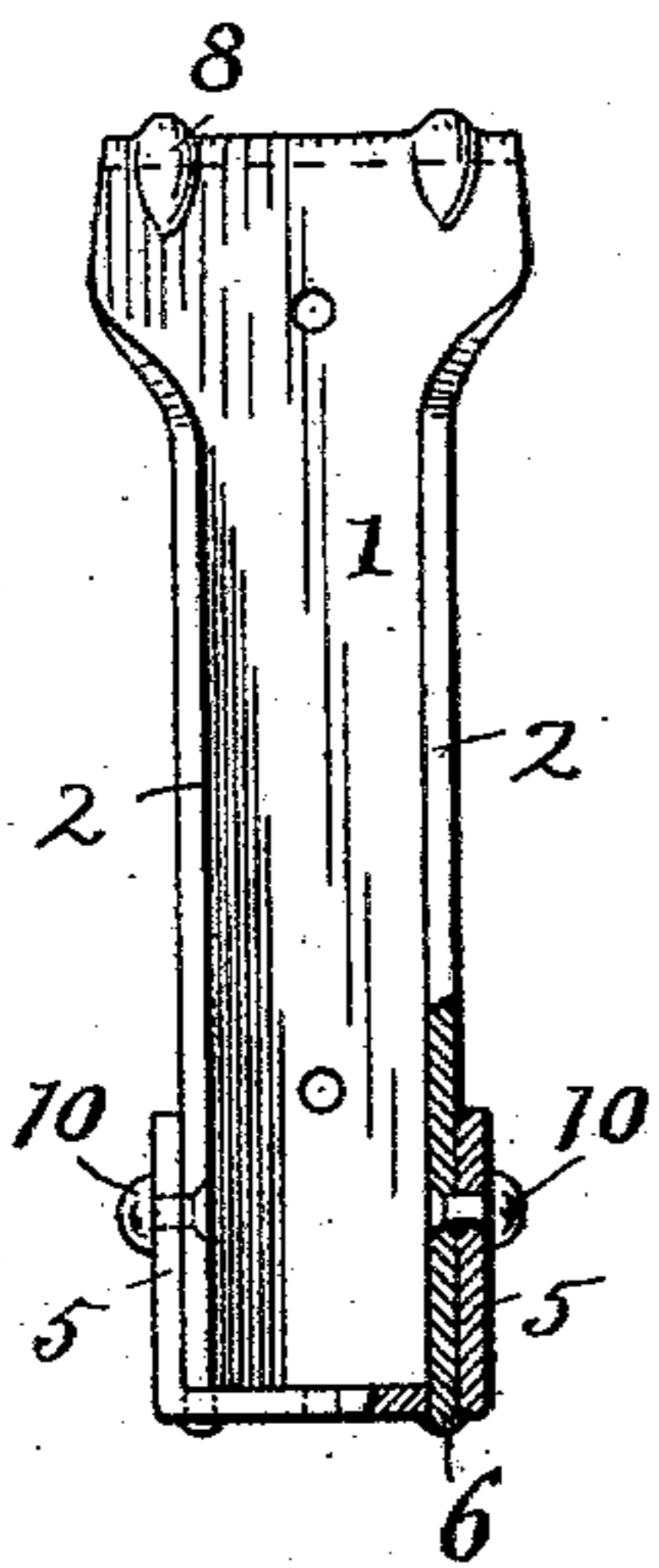


Fig. 2.

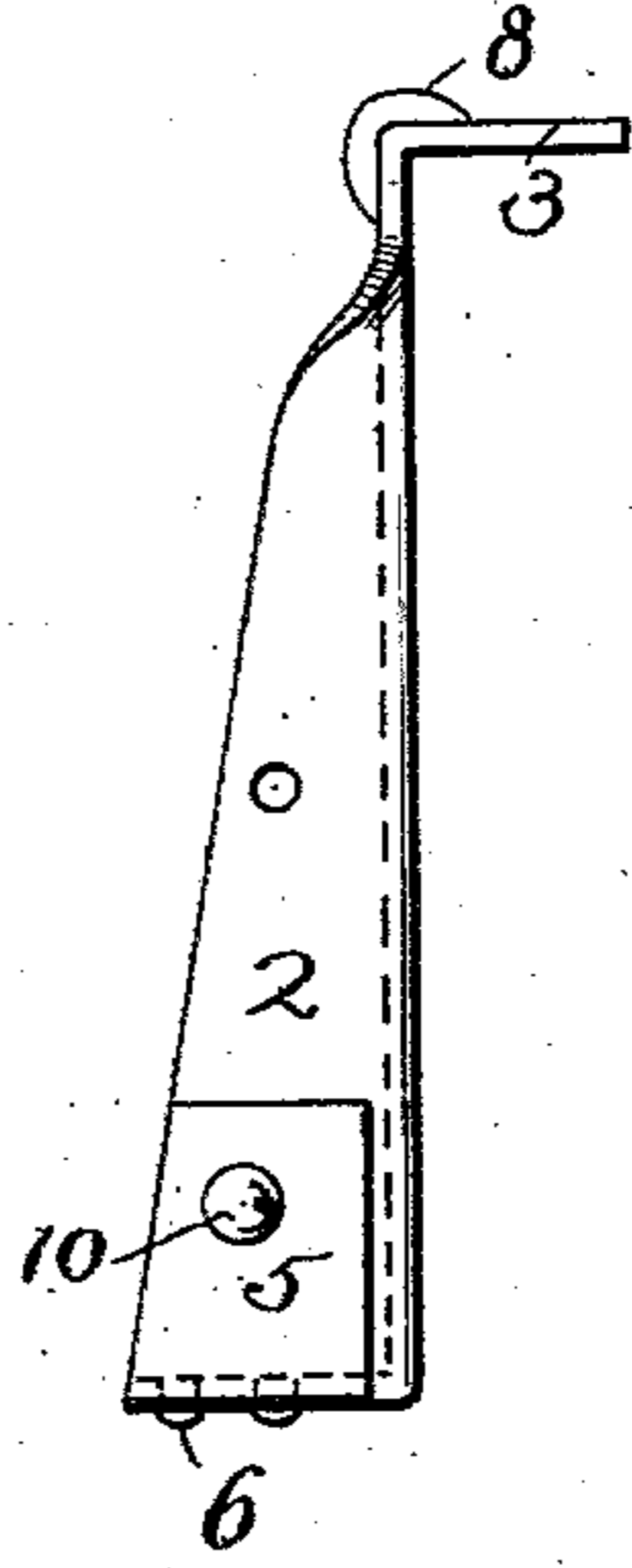


Fig. 3.

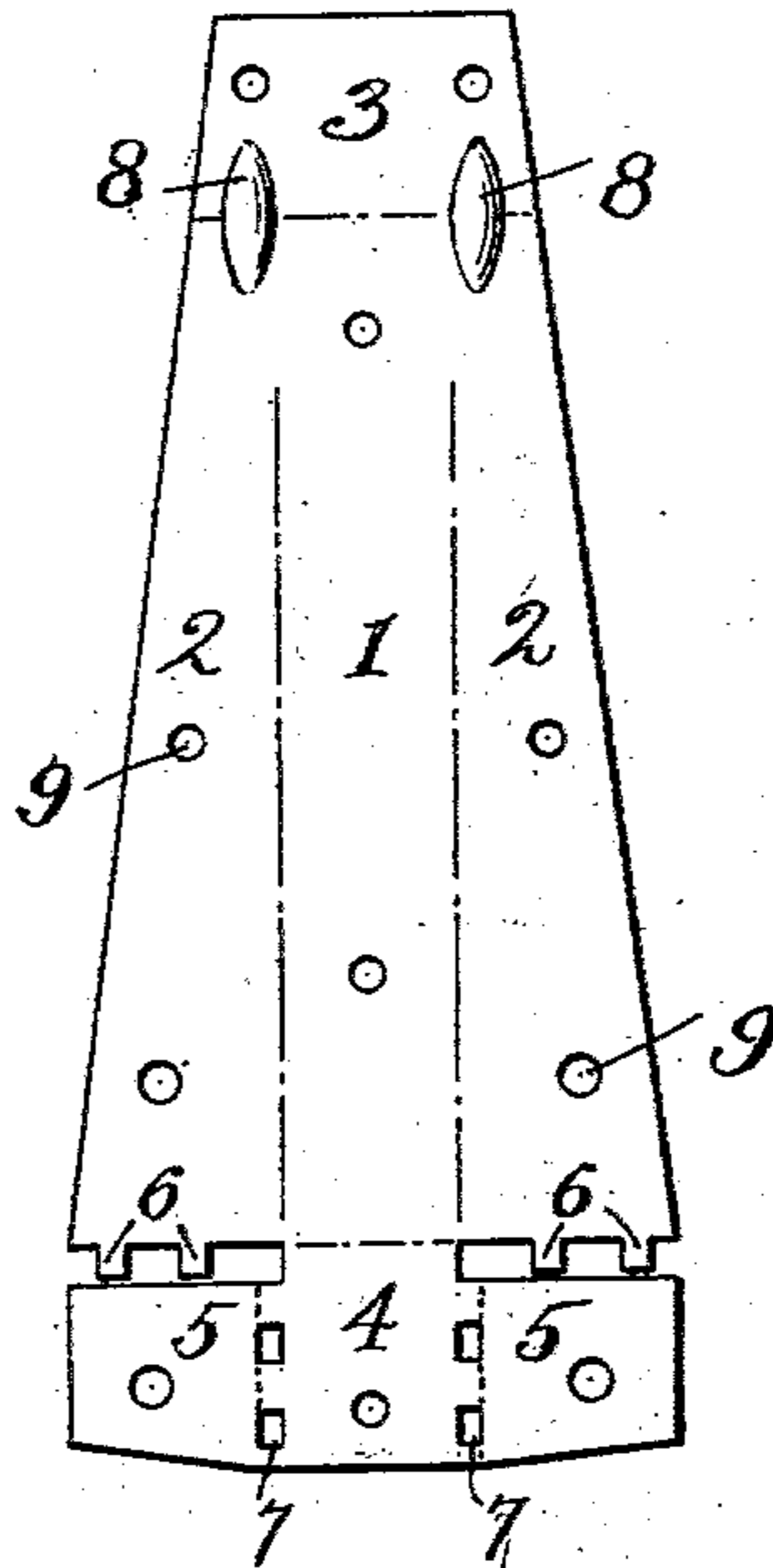


Fig. 4.

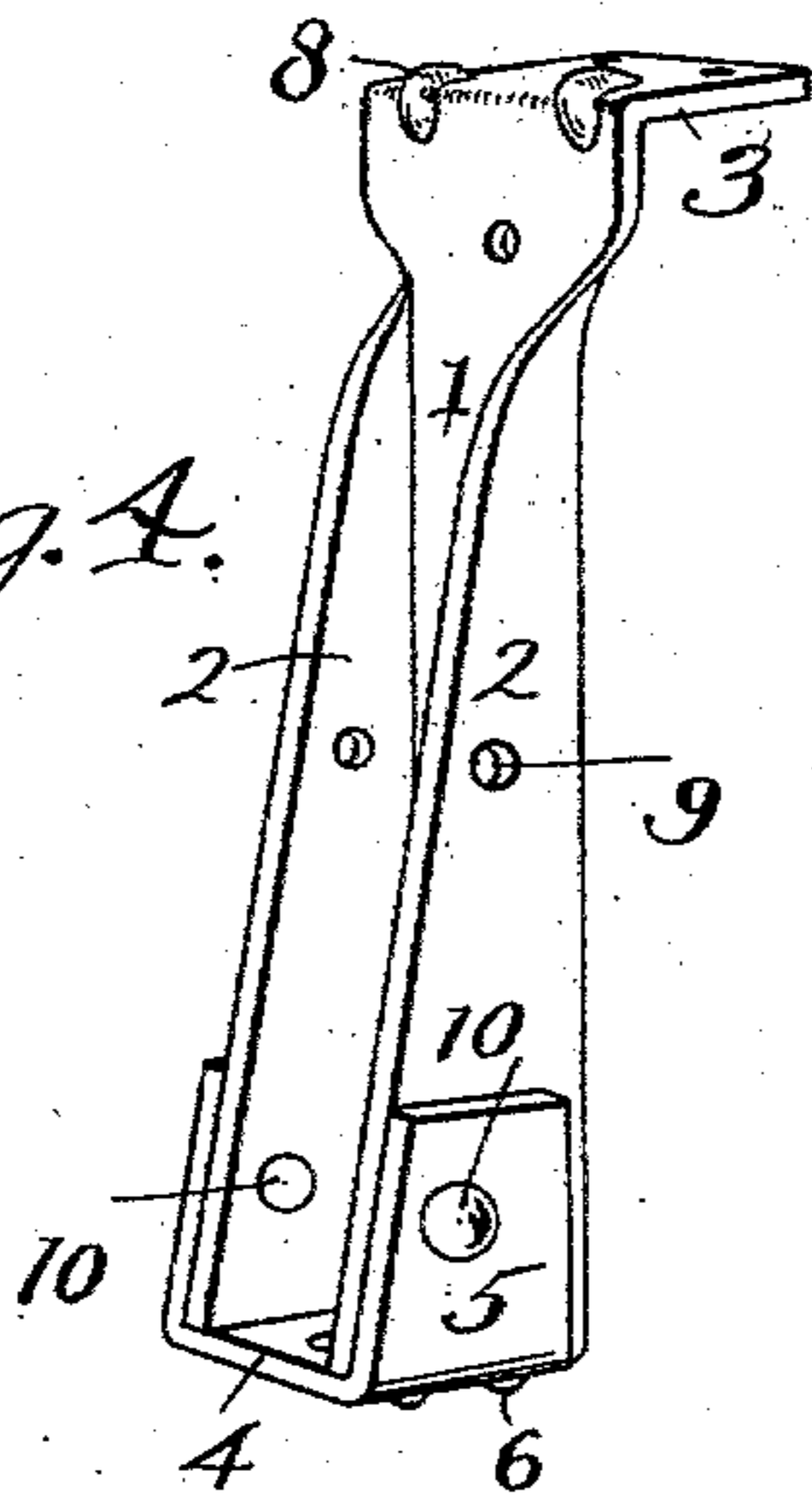
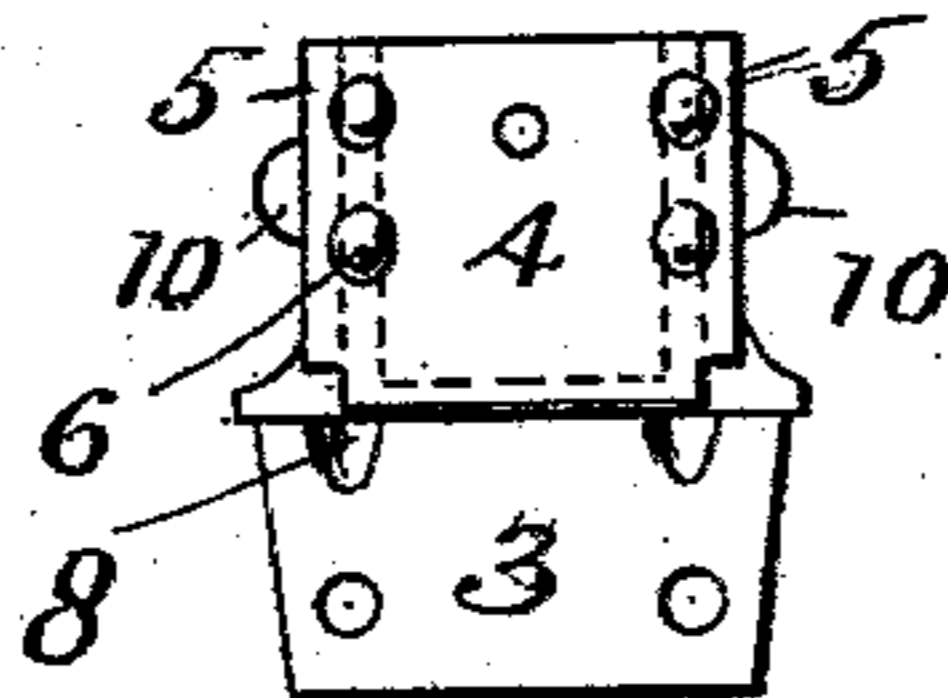


Fig. 5.



Witnesses  
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By his Attorneys,  
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# UNITED STATES PATENT OFFICE.

AUGUST H. EBERHARDT, OF CLEVELAND, OHIO.

## JOIST-HANGER.

SPECIFICATION forming part of Letters Patent No. 753,053, dated February 23, 1904.

Application filed July 10, 1903. Serial No. 164,953 (No model.)

*To all whom it may concern:*

Be it known that I, AUGUST H. EBERHARDT, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Joist-Hangers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

10 The object of this invention is to provide a joist-hanger which shall combine lightness with strength, being simple and cheap in construction and efficient in service.

15 The joist-hanger is made out of a single piece of sheet metal bent into suitable shape and held by rivets. Its particular form is hereinafter more fully explained, and its essential characteristics are set out in the claims.

20 In the drawings, Figure 1 is a front elevation, partly broken away, of my joist-hanger. Fig. 2 is a side elevation thereof, and Fig. 3 is a view of a blank from which the hanger is made. Fig. 4 is a perspective view of the hanger, and Fig. 5 is a bottom view.

25 The same letters of reference designate the same part in each figure.

30 The blank from which my hanger is made is a piece of sheet metal preferably of substantially the same thickness throughout, which is cut into the form shown in Fig. 3. As shown in this figure, the blank may be considered as composed of a back portion 1, flaring side portions 2 2, a top portion 3, and a bottom portion 4, having wings 5 5. These various portions are adapted to be bent upon each other at right angles, as indicated by the broken lines between them, thus bringing them into the relative positions shown in Fig. 4.

40 On the lower ends of the side portions 2 2 are formed tenons 6 6, and between the bottom portion 4 and the wings 5 5 are formed openings 7 7. When the bottom portion is bent at right angles to the back, the tenons 6 6 pass into the openings 7 7 and have their extreme ends riveted beneath the bottom portion 4. The two wings 5 are bent up onto the outer sides of the side portions 2 and are there held by rivets 10.

50 Across the junction-line of the top portion 3 with the rest of the hanger are formed elongated dents 8, which serve to reinforce and stiffen the bend between such portions. Suitable holes (indicated by 9) are made in various points of the hanger to allow the passage of nails or screws.

55 It will be seen that my hanger is very simply and cheaply made, being sheet metal suitably punched and bent. The tenons 6, for example, are made simply by punching slots of the form shown in the sides of the plate. The tenons and rivets make the hanger amply strong at the lower end, and the upper end by reason of the thickness of the metal and the reinforcing-dents is also sufficiently stiff and strong.

I claim—

1. A sheet-metal joist-hanger having a back portion, integral side portions with tenons on their lower ends, and an integral bottom portion having holes to receive said tenons, substantially as described.

2. A joist-hanger having a back portion, side portions with tenons on their lower ends, and a bottom portion having holes to receive said tenons, said bottom portion having wings which are bent upward onto the outer side of said side portions and there secured, all of said parts being made of a single piece of sheet metal, substantially as described.

3. A sheet-metal joist-hanger consisting of a back plate and side plates bent forward therefrom, and a bottom plate bent forward from the back plate and carrying at its edges wings bent upward alongside of the side plates and secured thereto by rivets, substantially as described.

4. A joist-hanger made of sheet metal and consisting of a back plate, a top plate bent rearward therefrom, side plates bent forward from the back plate, and a bottom plate bent forward from the back plate and having wings bent upward from its edges and secured to the side plates, substantially as described.

5. A joist-hanger made of sheet metal and consisting of a single blank form bent to comprise a back plate, a bottom plate, side plates tenoned into the bottom plate, wings on the bottom plate bent upward on the outer sides of the side plate and a top plate bent rearward from the back plate, substantially as described.

6. A joist-hanger made of sheet metal and consisting of the following portions, namely, a back plate, a bottom plate, side plates ten-  
5 tom plate bent upward on the outer sides of the side plates, and a top plate bent rearward from the back plate, there being reinforcing-dents formed across the junction of the top plate and the back plate, and rivets securing

said wings and side plates, substantially as de- 10 scribed.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

AUGUST H. EBERHARDT.

Witnesses:

ALBERT H. BATES,  
N. L. BRESNAN.