

(No Model.)

W. REUSCHEL.
HANGER FOR JOISTS.

No. 414,169.

Patented Oct. 29, 1889.

Fig. 1.

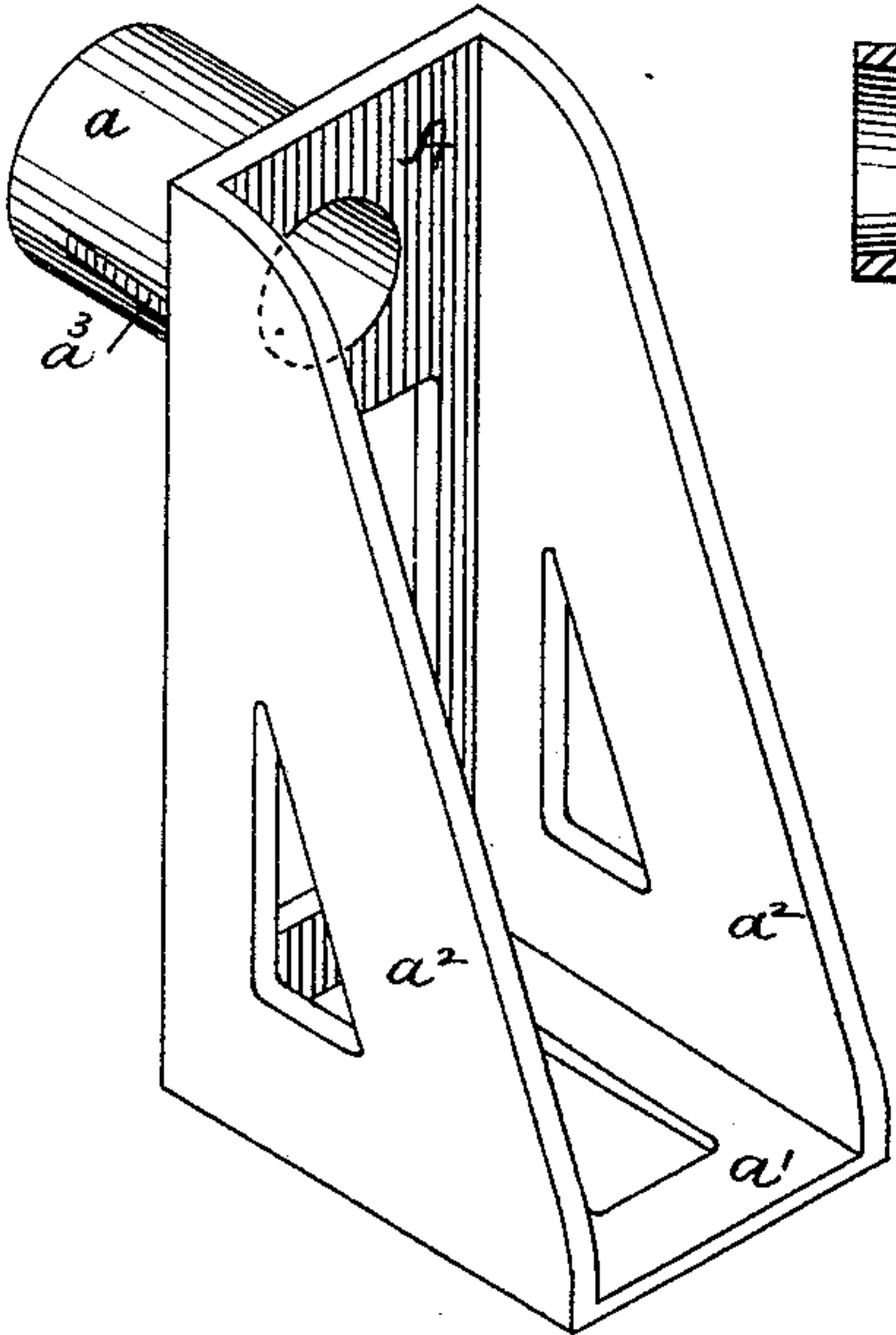


Fig. 2.

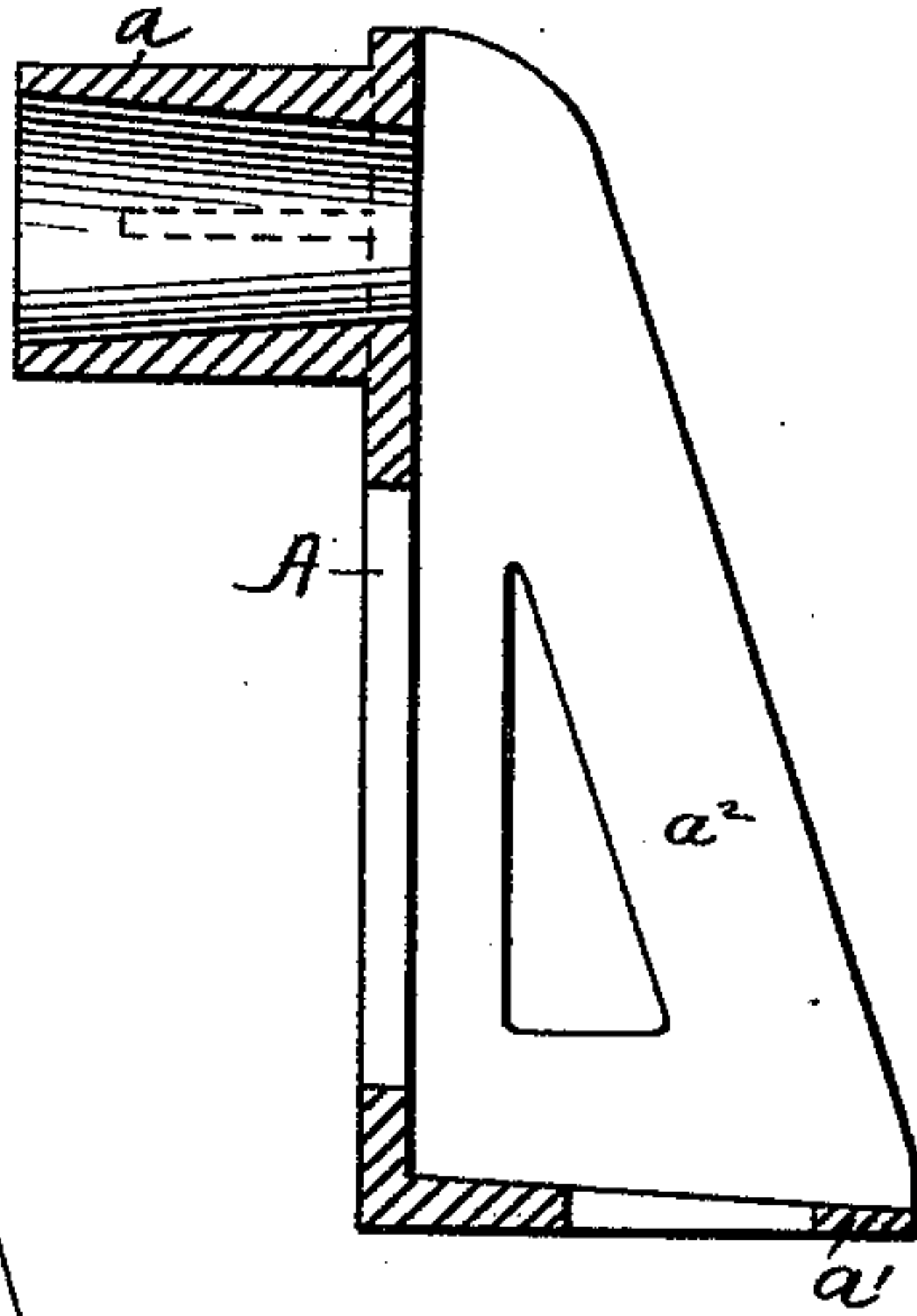


Fig. 3.

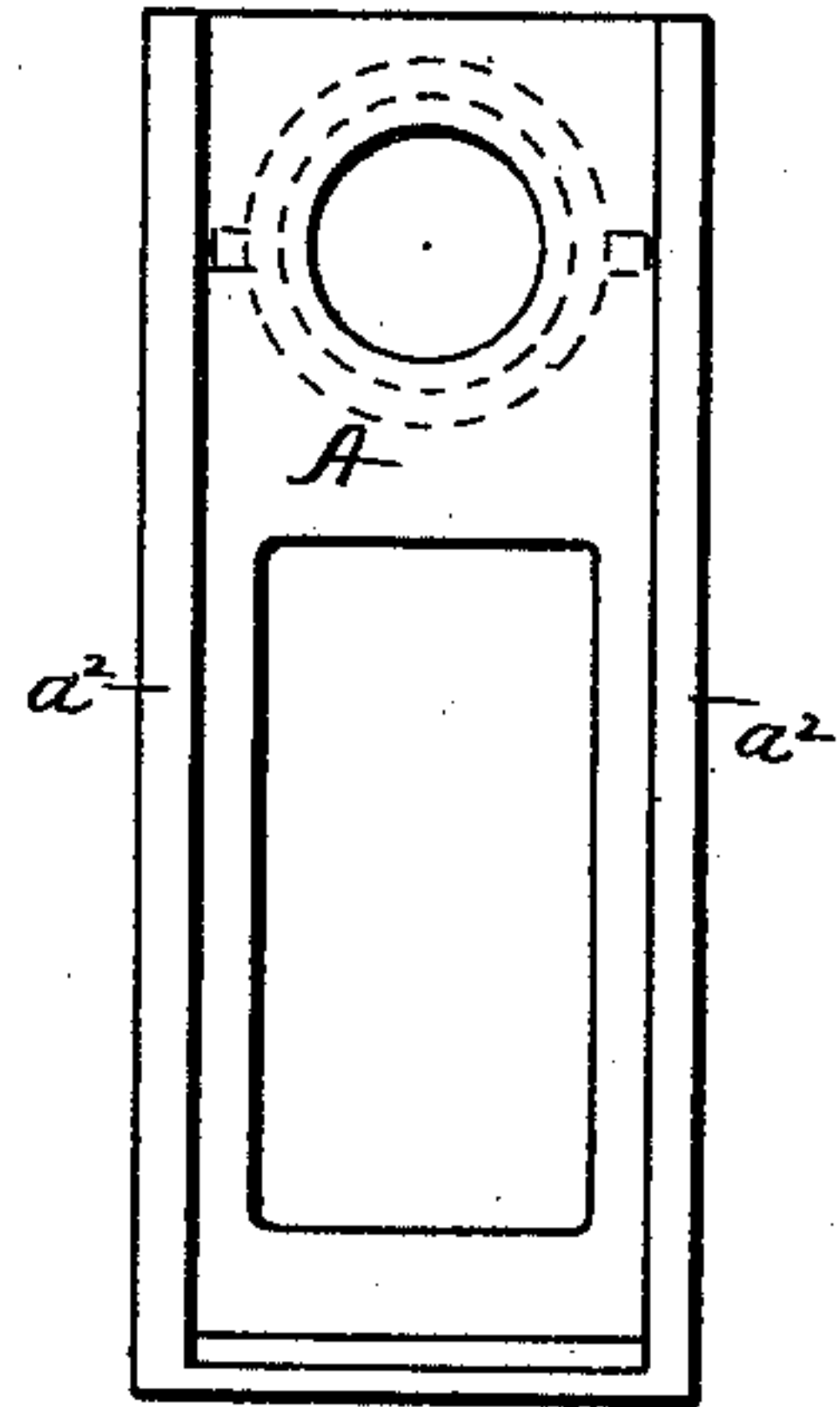


Fig. 4.

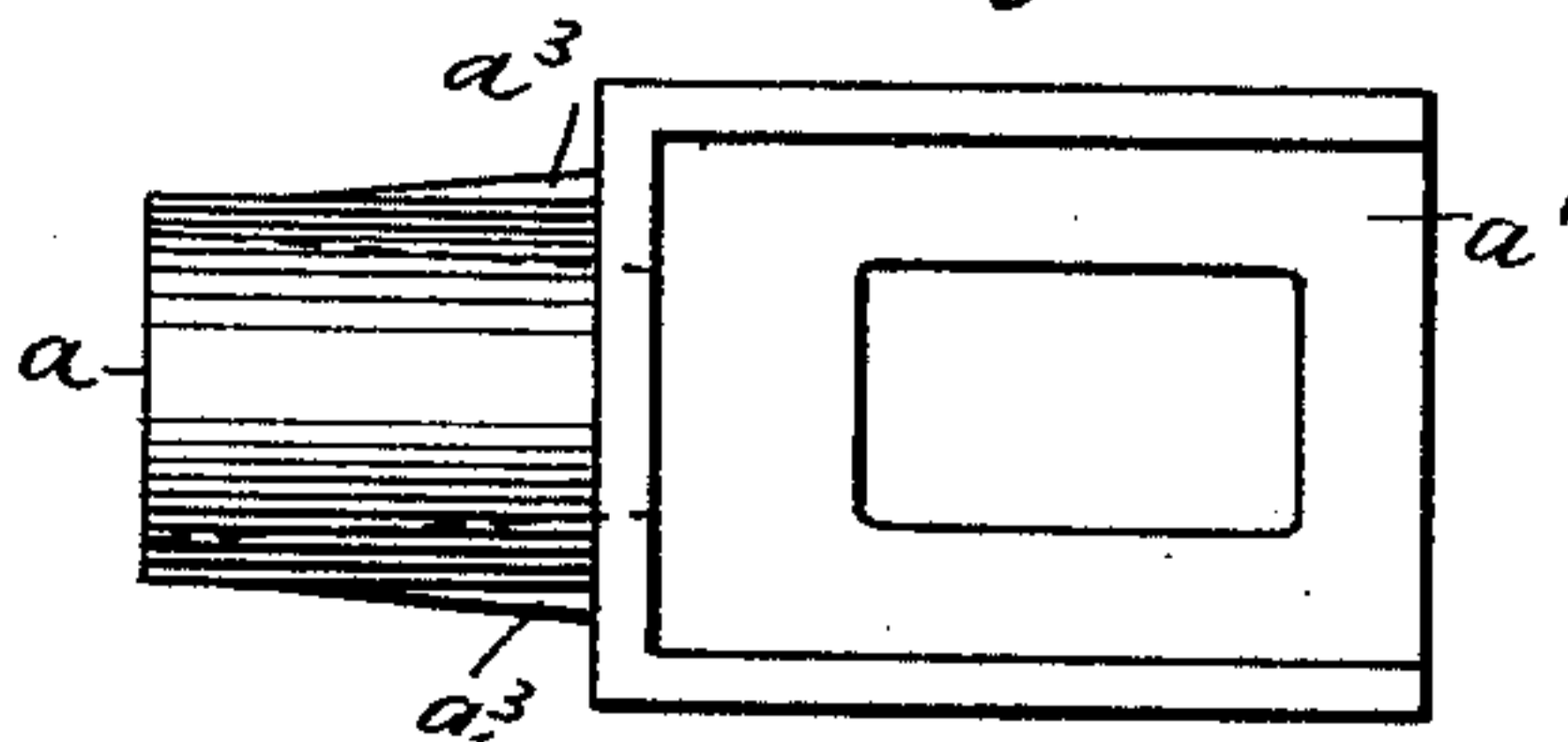


Fig. 5.

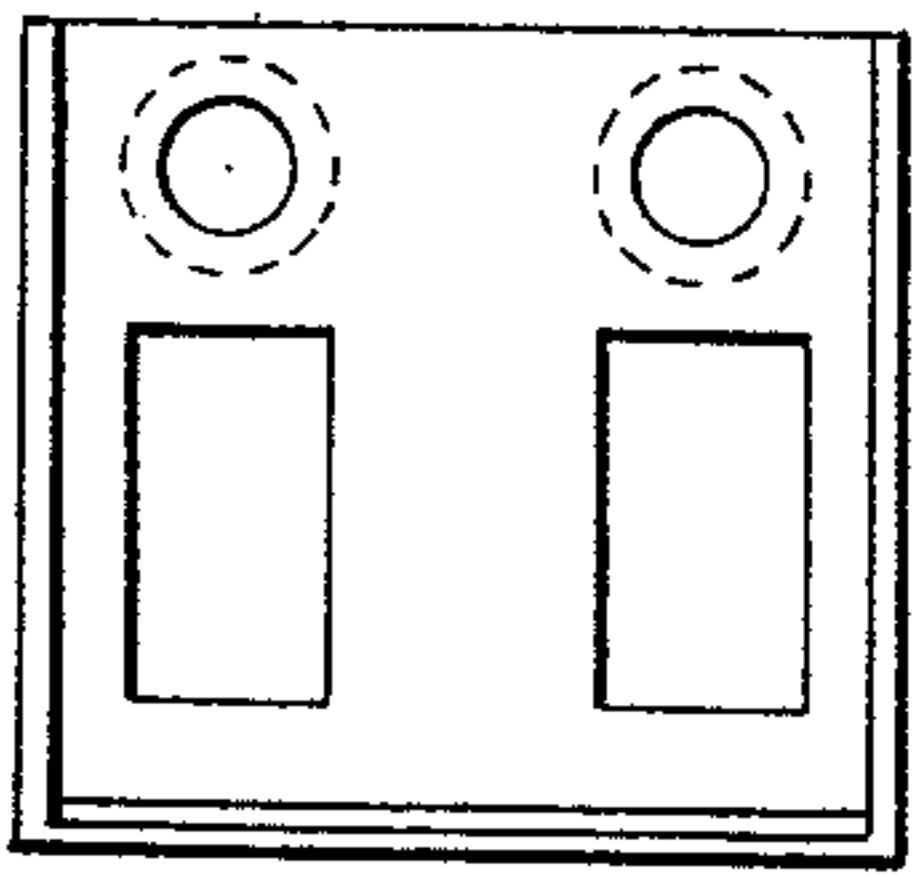


Fig. 7.

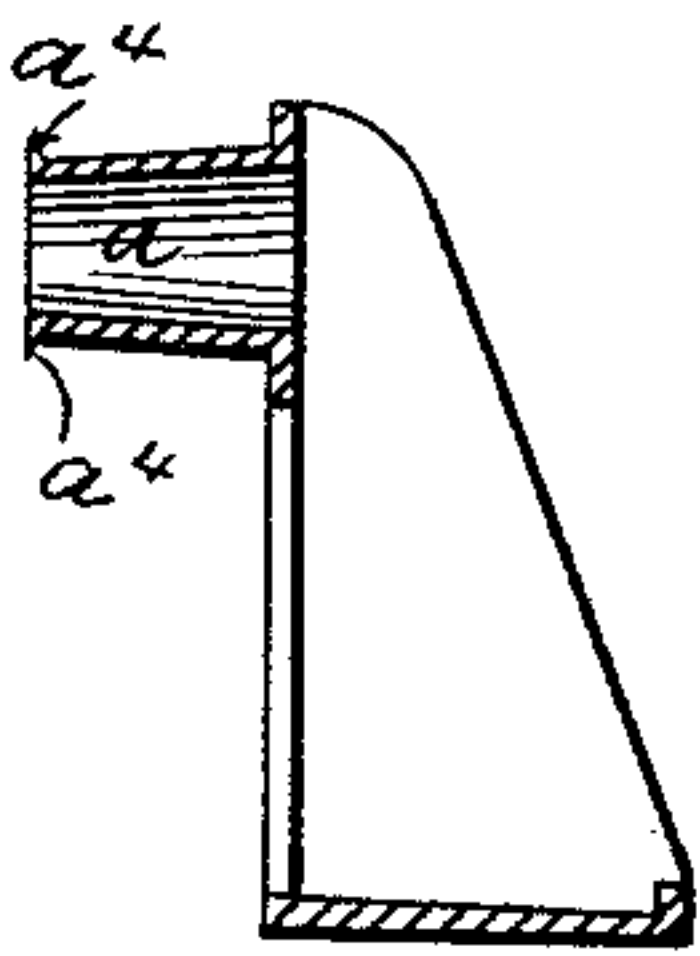


Fig. 8.

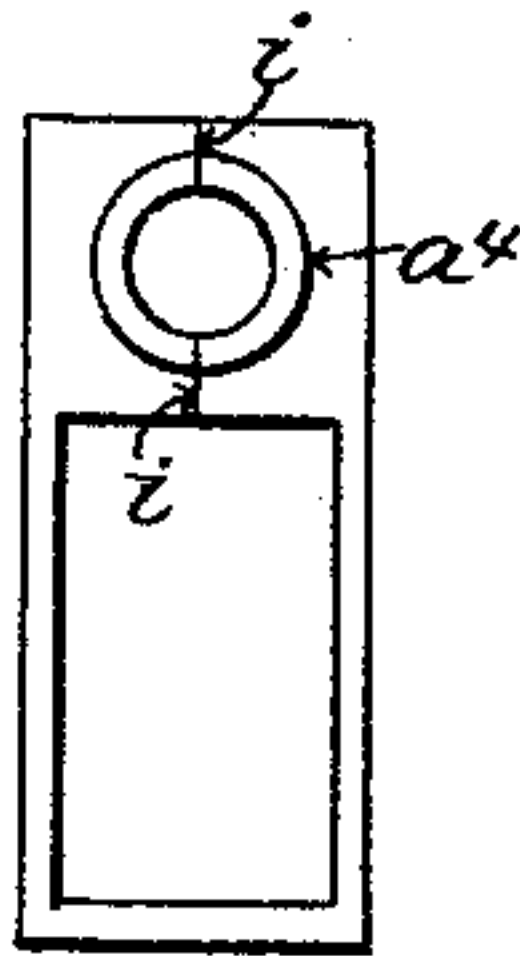


Fig. 9.

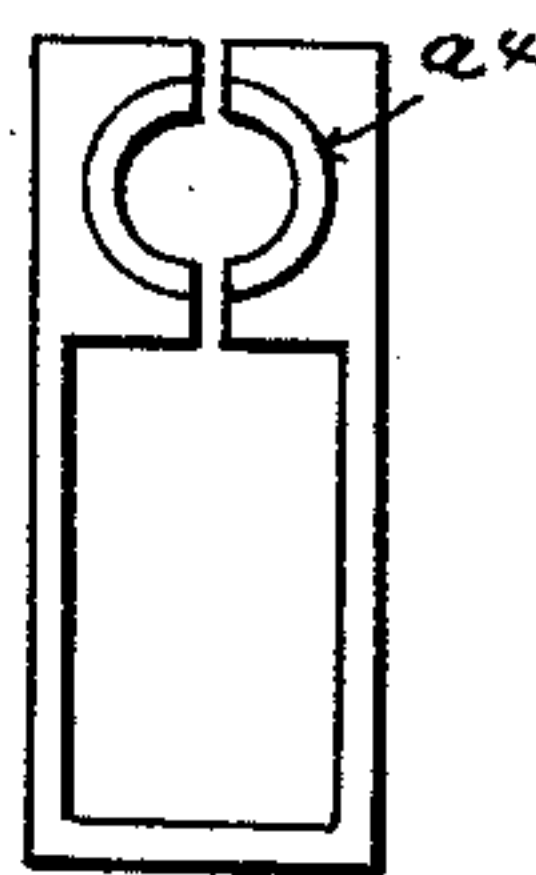
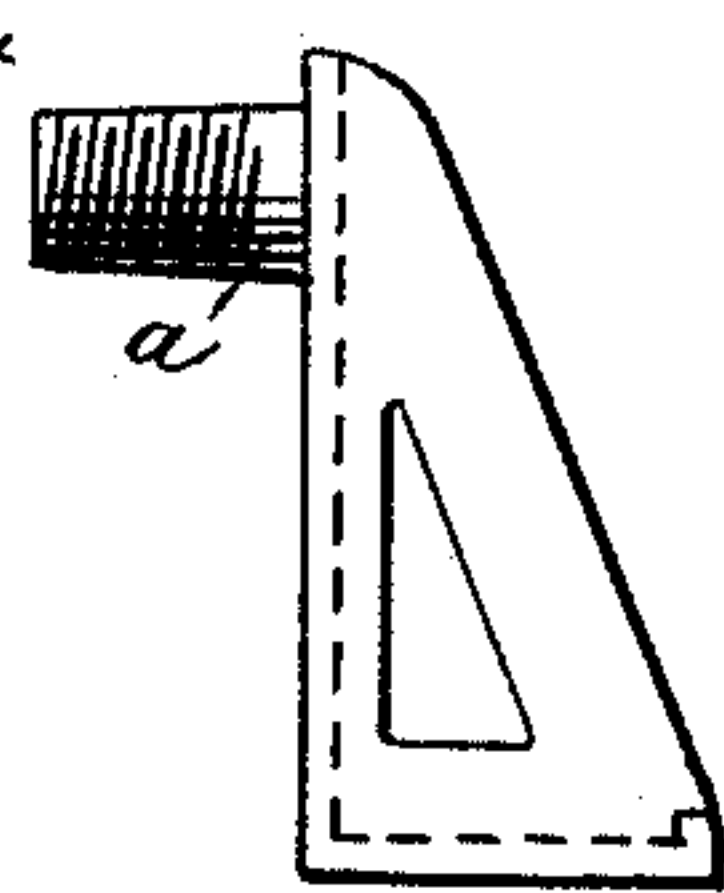


Fig. 6.



Witnesses.

James B. Sage
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Inventor

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Att'y's

UNITED STATES PATENT OFFICE.

WILLIAM REUSCHEL, OF CLEVELAND, OHIO, ASSIGNOR TO ISRAEL J. LEHMAN
AND THEODOR SCHMITT, BOTH OF SAME PLACE.

HANGER FOR JOISTS.

SPECIFICATION forming part of Letters Patent No. 414,169, dated October 29, 1889.

Application filed August 26, 1889. Serial No. 321,972. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM REUSCHEL, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and
5 useful Improvements in Hangers for Joists, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and
10 use the same.

My invention relates to improvements in hangers for supporting joists, timbers, &c.; and it consists in certain features of construction and in combination of parts hereinafter
15 described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective. Fig. 2 is a side elevation in section. Fig. 3 is a front end elevation. Fig. 4 is a plan. Fig. 5 is a front ele-
20 vation showing a double hanger. Fig. 6 is a side elevation showing a hanger with a screw-threaded boss. Fig. 7 is a side elevation in section. Figs. 8 and 9 are corresponding rear elevations.

25 A represents a metal hanger, comprising a vertical plate or frame and having a boss or lug a projecting from the rear face of the plate or frame for attaching the hanger, for instance, to a supporting-beam. The oppo-
30 site side of the plate or frame, and at the bottom thereof, has a forwardly-projecting foot a' , re-enforced on the side by ribs a^2 , these members forming a pocket or seat for receiving and supporting the joist or timber. Boss
35 a is usually cast hollow to save metal, and the opening through the same may serve for inserting a bolt in case the hanger is to be bolted to the supporting-beam or other part of the structure. Boss a is usually cast round,
40 so as to fit a hole bored in the beam, and the boss may be provided with external tapering ribs a^3 , that embed themselves in the wood in driving the boss into the hole prepared for it, (see Figs. 1 and 4,) or the boss may be
45 screw-threaded, as shown in Fig. 6. There is no framing, therefore, required for assembling the parts other than boring the holes for receiving the boss, as aforesaid. Another advantage is that the joist and supporting-
50 beam may be flush top and bottom.

In case the hanger is to be attached to mason-work, the bosses or lugs are usually rectangular in form and are set into the mason-work to which the hangers are anchored.

Fig. 5 shows a double hanger for support- 55
ing two joists or for supporting a timber of considerable thickness, and, of course, the hanger may be made of such lateral dimensions as will accommodate any desired tim-
60 ber or any desired number of joists.

The hangers shown in Figs. 1 to 6, inclusive, are supposed to be of cast metal.

The hanger shown in Figs. 7, 8, and 9 is supposed to be of wrought-metal plate stamped out and struck up and then bent back double 65
to the form shown more clearly in Figs. 8 and 9, the opposing ends meeting on line $i i$, Fig. 8. In such cases the boss may be provided with lateral ribs or flanges a^4 at the ends
70 of the bosses, so that the two halves of the bosses may be distended or wedged apart, causing flanges a^4 to be embedded in the wood to hold the bosses in place, such distention of the parts being shown in Fig. 9.

What I claim is—

1. A hanger for supporting joists, timbers, &c., the same comprising a vertical plate or frame having a boss or projecting member on the one side and below the upper edge thereof for attaching the hanger to the supporting 80
part of the structure, the opposite side of the hanger being provided at a point below the boss with a seat for receiving the joist or timber to be supported, substantially as set forth. 85

2. A hanger for supporting joists, &c., the same comprising a vertical plate or frame, a hollow cylindrical boss projecting from one side thereof, and a seat projecting from the other side of said frame, the said seat being 90
in a plane below the boss, substantially as set forth.

3. A hanger for supporting joists, &c., the same comprising a vertical plate or frame, a cylindrical boss projecting from one side 95
thereof and provided with ribs, and a seat projecting from the other side, the said seat being in a plane below the plane of the boss, substantially as set forth.

4. A hanger for supporting joists, &c., the 100

same comprising a vertical frame the upper
section of which is in two sections, a sectional
cylindrical boss formed on one side of the
upper section of the frame, and a seat pro-
5 jecting from the opposite side of the lower
portion of the frame, substantially as set
forth.

In testimony whereof I sign this specifica-
tion, in the presence of two witnesses, this 11th
day of June, 1889.

WILLIAM REUSCHEL.

Witnesses:

CHAS. H. DORER,
WILL B. SAGE.