

No. 869,497.

PATENTED OCT. 29, 1907.

M. LARKINS.
ARCH CLAMP.

APPLICATION FILED MAY 22, 1907.

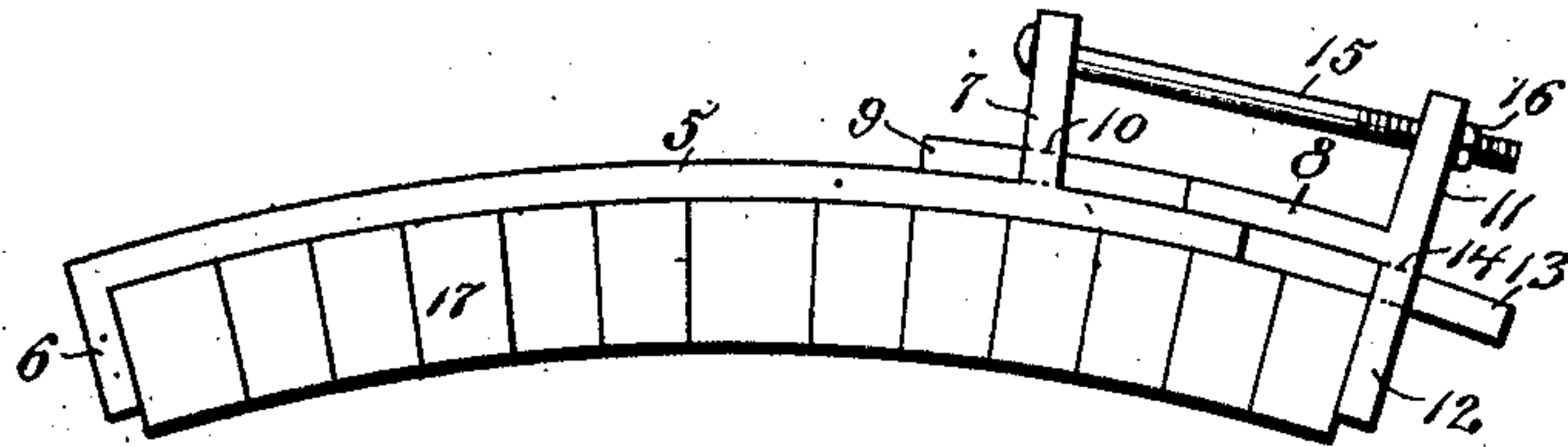


Fig. 1.

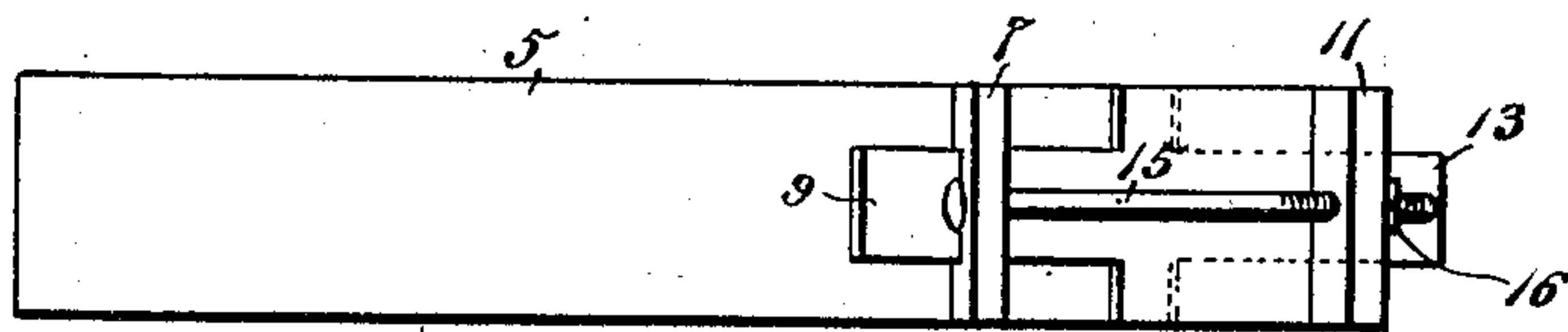


Fig. 3.

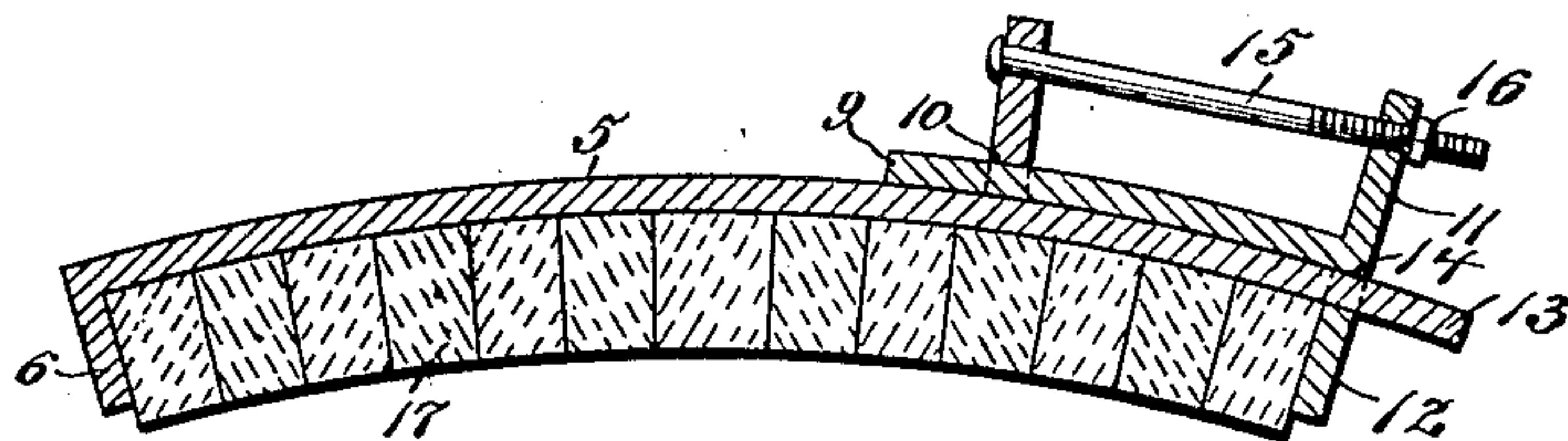


Fig. 2.

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MICHAEL LARKINS, OF SOUTH BETHLEHEM, PENNSYLVANIA.

ARCH-CLAMP.

No. 869,497.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed May 22, 1907. Serial No. 375,137.

To all whom it may concern:

Be it known that I, MICHAEL LARKINS, a citizen of the United States, residing at South Bethlehem, in the county of Northampton and State of Pennsylvania, have invented certain new and useful Improvements in Arch-Clamps, of which the following is a specification.

This invention is a clamp for securing the bricks of furnace-arches, and it has for its object an improved device of this kind embodying simplicity of construction, and also one which can be readily adjusted and applied to arches of different lengths.

In the accompanying drawing, Figure 1 is an elevation of the invention showing the application thereof. Fig. 2 is a longitudinal section. Fig. 3 is a plan view.

Referring specifically to the drawing, 5 denotes an arched beam having at one end a depending flange 6. Near the other end of the beam is an upstanding flange 7, and said end also carries an adjustable end piece, comprising a plate 8 fitting on top of that portion of the beam which projects beyond the flange 7. This plate is curved to conform to the curvature of the beam 5 and it fits snugly thereon. The plate 8 is reduced at its inner end to form a tongue 9 which passes through a slot 10 in the flange 7, and at its other end the plate has upwardly and downwardly presented flanges 11 and 12 respectively. The end of the beam 5 is also reduced to form a tongue 13 which passes through a slot 14 in the flange 12. The flanges 7 and 11 have aligned openings to receive a clamping screw 15 fitted with a nut 16 which bears on the outer side of the flange 11.

In use, the clamp is inverted and the bricks 17 of the arch are placed on the beam with the flanges 6 and 12, engaging the respective end bricks of the arch. The adjustable end piece is then drawn up by the clamping screw and nut until the bricks are tightly clamped between the flanges. The arch can then be readily put in place. The tongues 9 and 13 prevent side play of the adjustable end piece, and also guide its movement so that the flange 12 will come squarely against the brick at that end of the arch. The end piece also adapts the clamp to arches of various spans, and its proportions and curvature will be varied to suit the design of the arch.

I claim:

1. A clamp for arches comprising a beam having at one end a depending flange, and adjacent the opposite end an upstanding flange, an adjustable end piece on the latter end of the beam comprising a plate having upstanding and depending flanges, the latter flange having a slot to receive the end of the beam, and a clamping-screw passing through the upstanding flanges.

2. A clamp for arches comprising a beam having at one end a depending flange, and adjacent the opposite end a slotted upstanding flange, an adjustable end piece on the latter end of the beam comprising a plate on said beam fitting at one end in the slot of the upstanding flange, and having at the opposite end upstanding and depending flanges, and a clamping-screw passing through the upstanding flanges.

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

MICHAEL LARKINS.

Witnesses:

JAMES BURNS,
JACOB LANNING.