

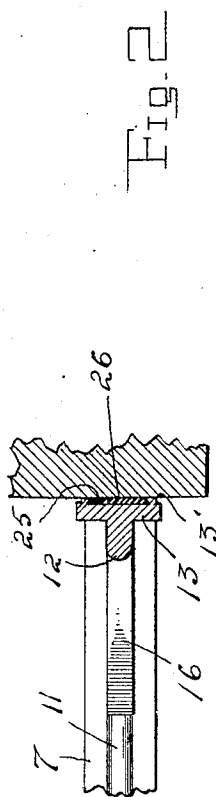
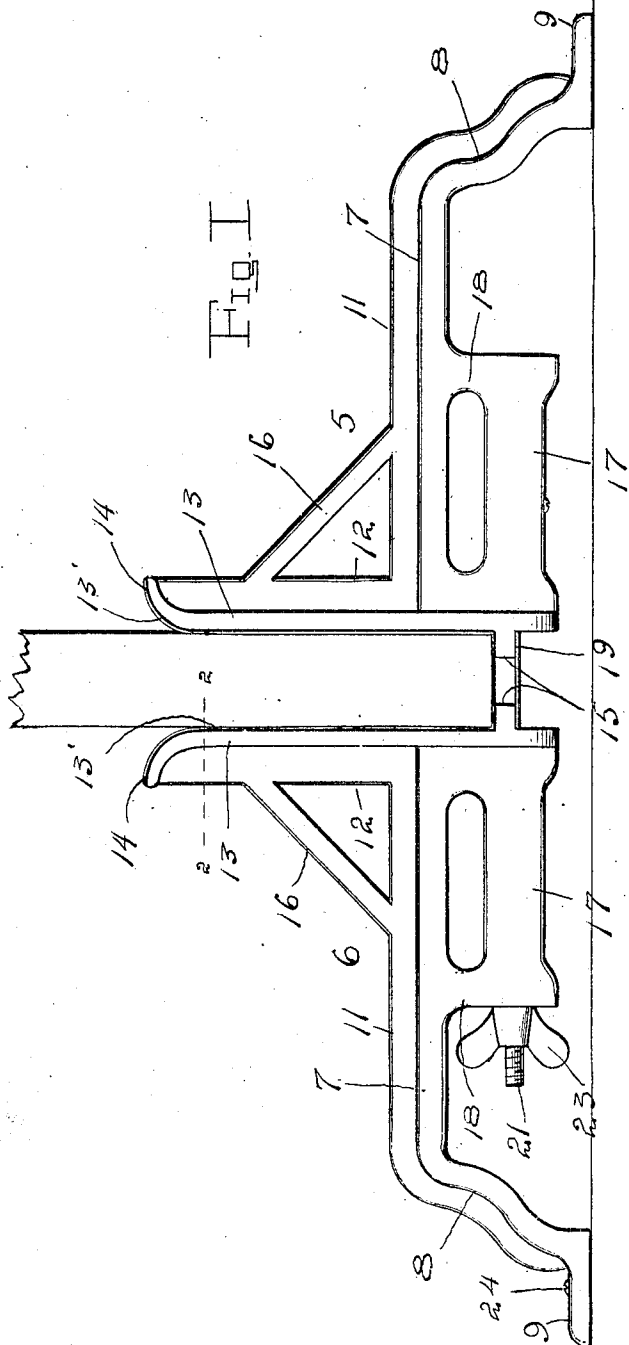
No. 849,354.

PATENTED APR. 9, 1907.

J. C. ADAMS.  
CLAMP.

APPLICATION FILED JULY 26, 1905.

2 SHEETS—SHEET 1.



Witnesses

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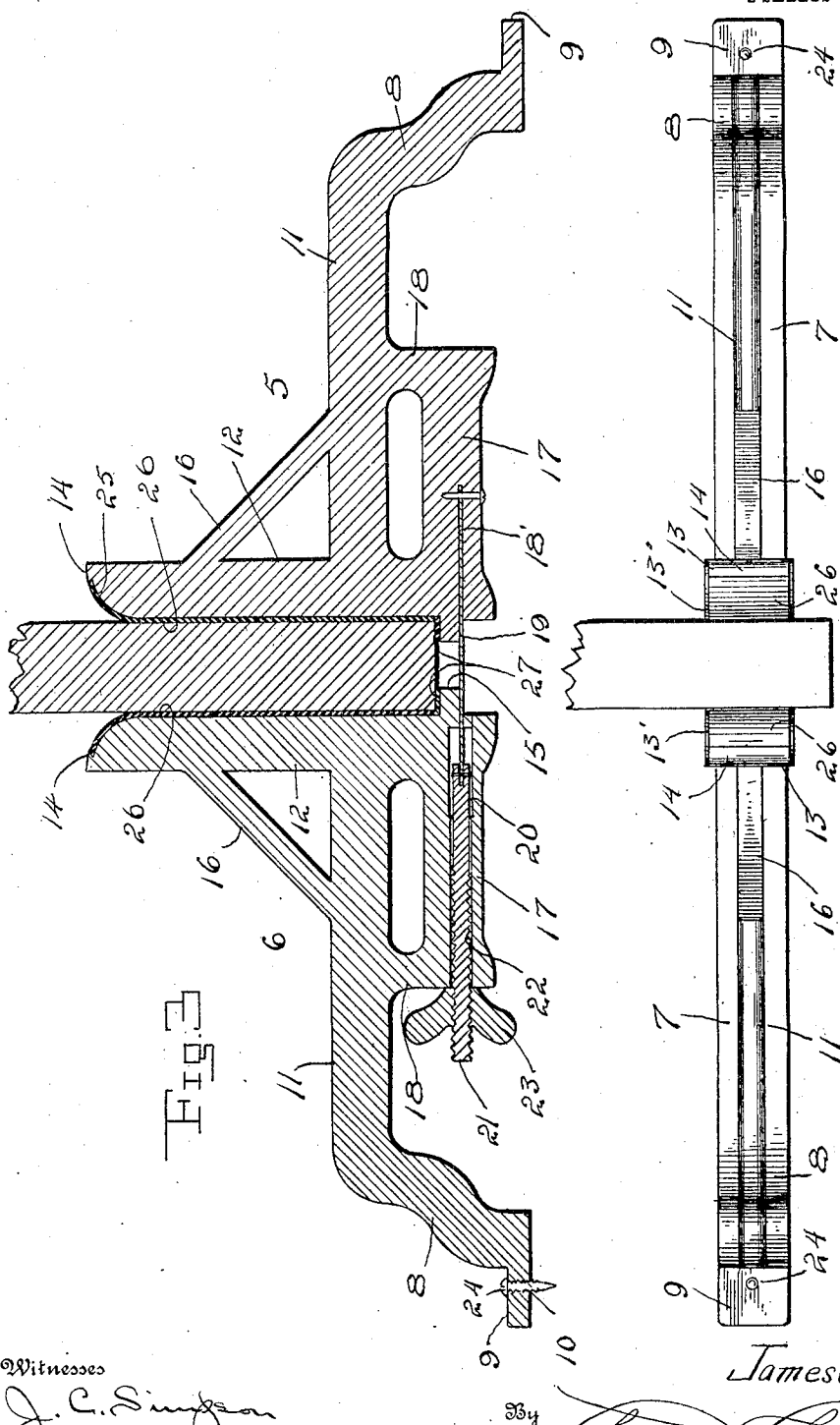


Fig. 4.

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# UNITED STATES PATENT OFFICE.

JAMES C. ADAMS, OF PETROLEUM, INDIANA.

## CLAMP.

No. 849,354.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed July 25, 1905. Serial No. 271,202.

*To all whom it may concern:*

Be it known that I, JAMES C. ADAMS, a citizen of the United States, residing at Petroleum, in the county of Wells, State of Indiana, have invented certain new and useful Improvements in Clamps; 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 appertains to make and use the same.

This invention relates to clamps, and more particularly to those designed for use in the carpenters' trade, and has for its object to provide a clamp adapted for the reception of a door to hold the latter in position to permit of mortising an edge thereof for the reception of hinges or of otherwise treating the edge of the door.

Another object is to provide a clamp of this kind which will be so constructed as to be strong and durable while being light and which will be so constructed as to prevent the defacing of a door engaged therein.

Other objects and advantages will be apparent from the following specification, which describes an embodiment of the present invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of the present clamp with a door engaged therein. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a longitudinal vertical section of Fig. 1. Fig. 4 is a top plan view.

Referring now to the drawings, the present invention comprises two castings 5 and 6, each including a horizontal portion 7, having a downwardly-directed outer end 8, provided with a foot 9 at its extremity, one foot having a screw-receiving opening 10 formed vertically therein. The portions 7 and 8 have a continuous longitudinally-extending upwardly-directed strengthening-rib 11, which at its inner end, this end being the one lying opposite to the portion 8, joins a vertical rib 12, formed upon the outer face of a vertically-extending plate 13, which is carried by the inner end of the portion 7, extending above and below this portion. At its upper end this plate 13 is curved outwardly, as shown at 14, and at its lower end it has a lip 15, extending horizontally and at right angles to the inner face 13' of the plate. The casting also includes a diagonal brace 16, joining the rib 12 adjacent to the upper end

of the latter and also adjoining the rib 11 at a point spaced from the inner end thereof.

A cylindrical member 17 joins the lower portion of the plate 13 at its inner end and 60 extends horizontally, the outer end of this member being supported by a web 18, connecting it with the under face of the portion 7.

The member 17 of the casting 5 is provided with a horizontally-extending longitudinal slot 18, which communicates with the inner end of this member below the lip 15, this slot being formed by sawing into the member from the end thereof, and engaged in this slot there is a strap-spring 19, which is secured in position by a screw engaged in the member. This spring extends into a recess 20, formed in the member 17 of the casting 6, in which the spring is slidable, and the spring has secured thereto a threaded rod 21, lying in a passage 22, formed in the member 17 of the casting 6 and opening through the outer end thereof, the rod 21 extending outwardly beyond the member and having a wing-nut 23 engaged therewith, this wing-nut being operable, as will be readily understood, to vary the distance between the plates 13 of the two castings, which are disposed with their inner faces directed toward each other and in spaced relation. The strap-spring 19 is given an upward bow between its ends, which is such that the plates 13 are held normally in an upwardly-diverging position, and it will be understood that this divergence may be varied by tightening or loosening the strap-spring 19, it being understood that the castings are secured to a suitable support by means of a screw 24, which is engaged in the opening 10.

The mutually-adjacent faces of the plates 13 are provided with longitudinally-extending dovetail recesses 25, in which are engaged resilient facing-pieces 26, the upper sides of the lips 15 being provided with similar facing-pieces 27, attached in the same manner.

In use the lower edge of a door to be operated upon is disposed between the plates 13, which thus form coöperating jaws, and the weight of the door resting upon the lips 15 moves the inner ends of the castings downwardly to cause the jaws to firmly grip the door.

What is claimed is—

A clamp, comprising in combination two castings each including a horizontal portion having a downwardly-directed outer end provided with a foot at its extremity, the foot of

one casting having a screw-receiving opening therein, said horizontal portions having longitudinally-extending upwardly-directed strengthening-ribs, said horizontal portions  
5 having vertical plates at their mutually-adjacent ends lying in spaced relation, said plates having vertical ribs upon their outer faces, said castings each having a diagonal brace-rib connecting the ribs of their hori-  
10 zontal portions and those of the vertical plates, inwardly-extending lips carried by the plates at the lower ends thereof, cylindrical members joining the lower ends of the plates and extending horizontally beneath  
15 the horizontal members and connected therewith at their outer ends, one of said cylindrical members having a passage and the other having a slot therein, a spring fastened

in the slot and extending beneath the lips and into the passage, said passage extending 20 longitudinally through the cylindrical member, a threaded rod secured to the spring within the passage and extending outwardly through the outer end thereof, and a wing-nut engaged at the outer end of the threaded 25 rod and bearing against the adjacent cylindrical member, said vertical plates having their inner surfaces curved outwardly at their upper ends.

In testimony whereof I affix my signature 30 in presence of two witnesses.

JAMES C. ADAMS.

Witnesses:

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GEORGE MOCK.