

No. 706,642.

Patented Aug. 12, 1902.

J. C. DODS.

CLAMP FOR RETORT MOUTHPIECES.

(Application filed Sept. 21, 1901.)

(No Model.)

Fig. I.

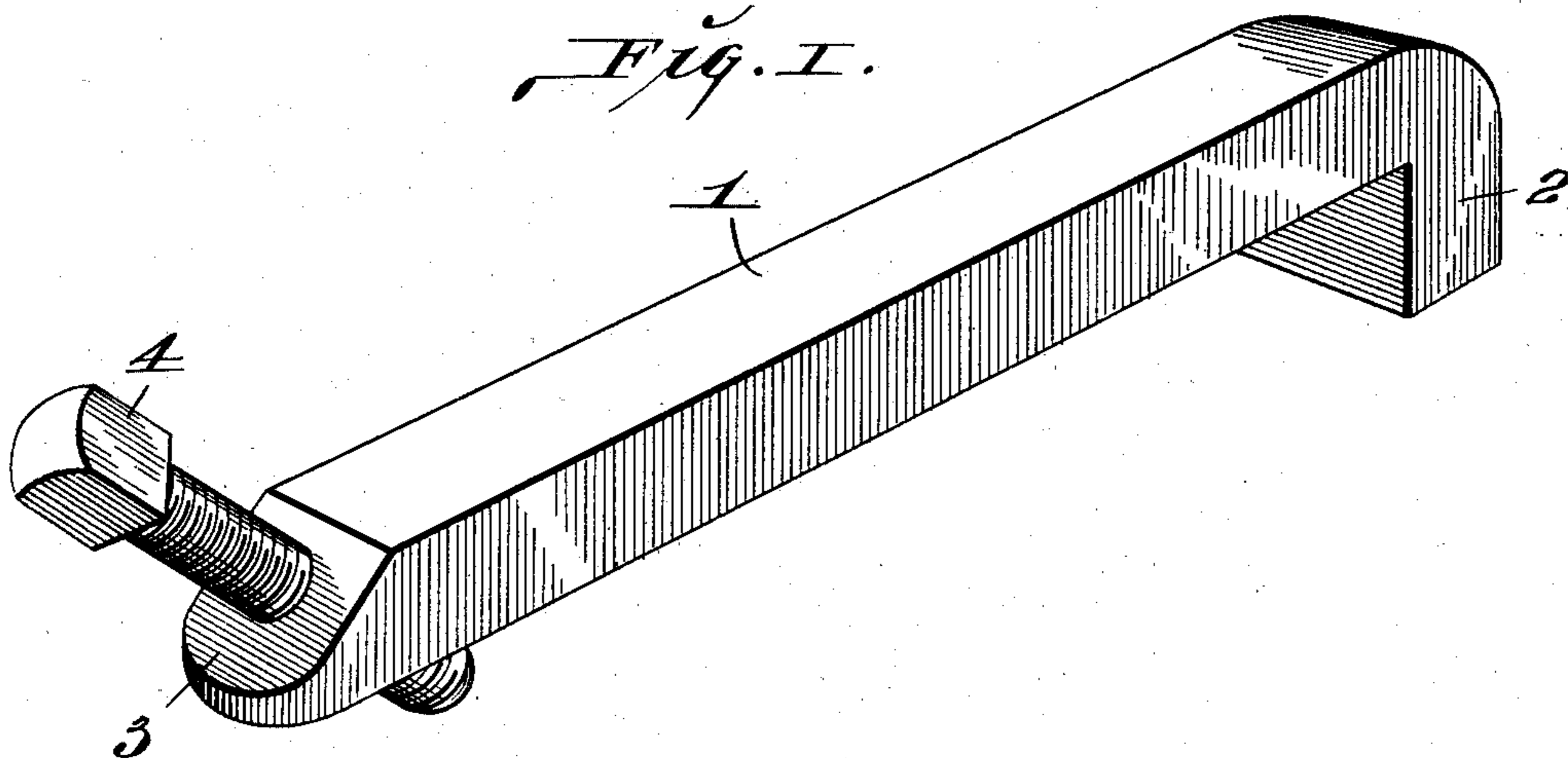


Fig. II.

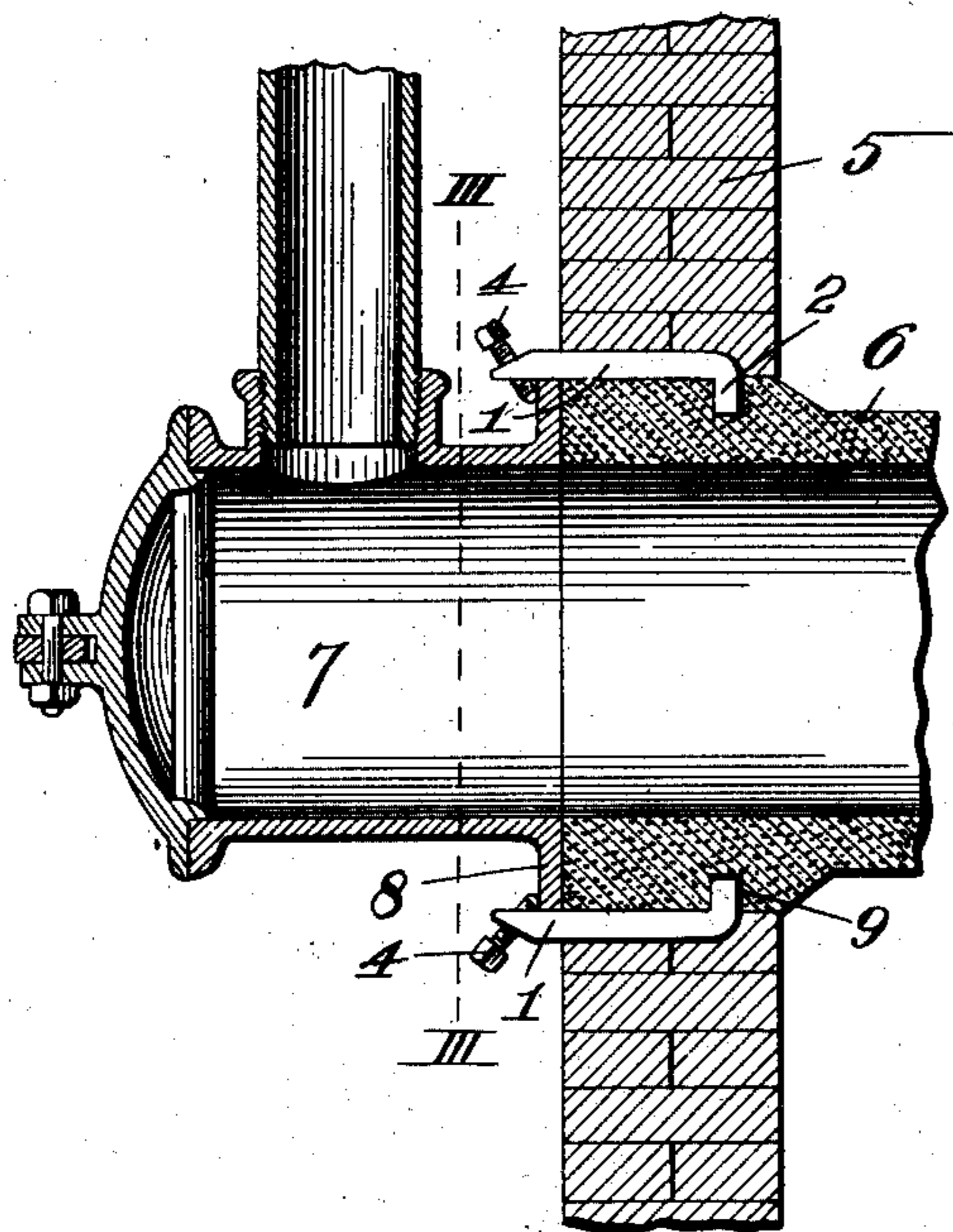
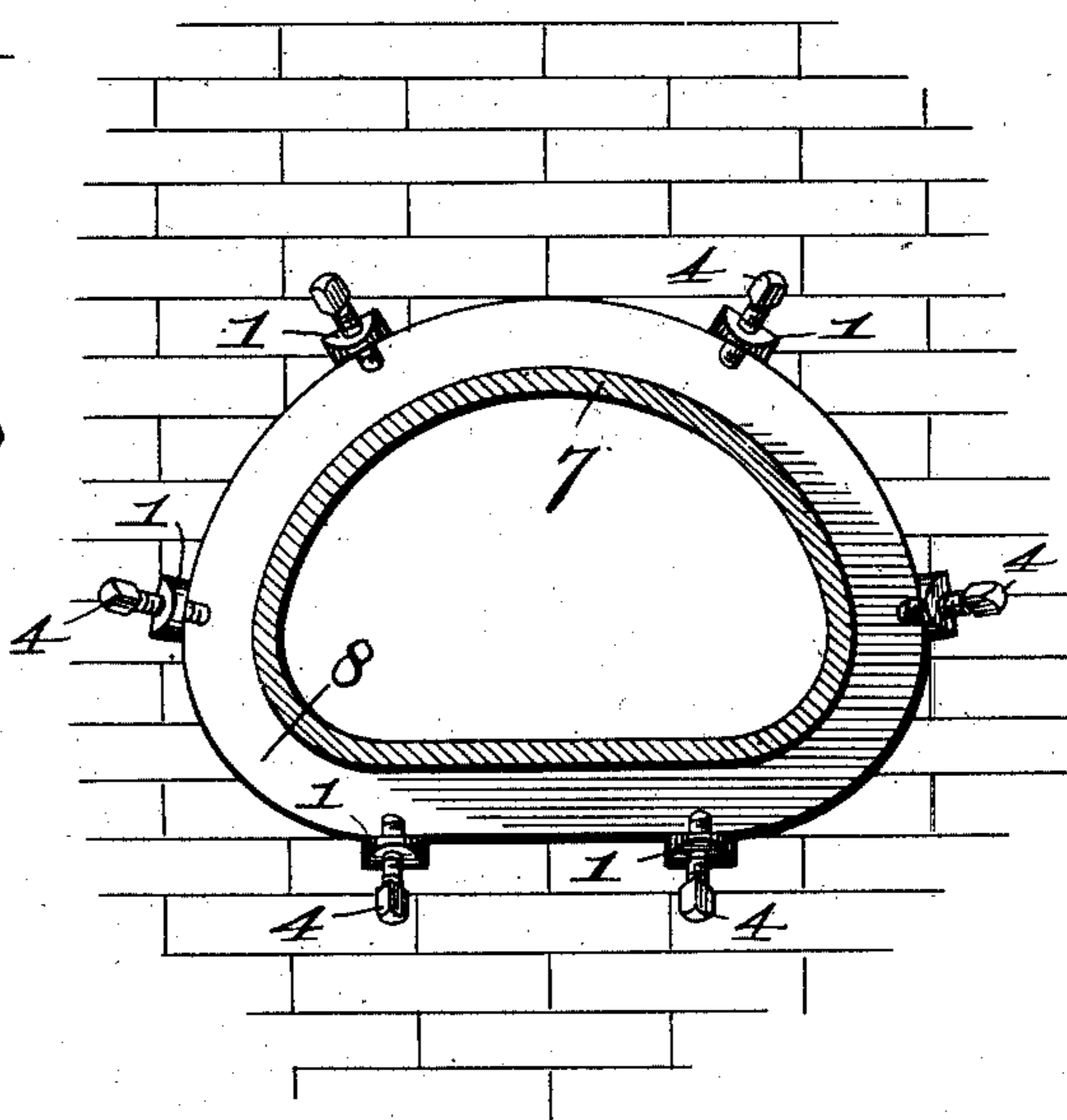


Fig. III.



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UNITED STATES PATENT OFFICE.

JOHN C. DODS, OF ST. LOUIS, MISSOURI, ASSIGNOR TO JAMES GREEN, OF
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CLAMP FOR RETORT-MOUTHPIECES.

SPECIFICATION forming part of Letters Patent No. 706,642, dated August 12, 1902.

Application filed September 21, 1901. Serial No. 76,124. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. DODS, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Clamps for Retort-Mouthpieces, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Figure I is a perspective view of my improved clamp. Fig. II is a vertical sectional view of the end of a retort with the mouthpiece secured thereto by my improved clamps.

Fig. III is a vertical sectional view taken on line III III, Fig. II.

1 indicates the body of the clamp, which is preferably of rectangular shape in cross-section. One end of the clamp is bent at a right angle to the body to form the hook 2. The opposite end of the clamp is beveled, as indicated at 3. Passing through a threaded aperture in the beveled end of the clamp at an angle of approximately thirty-five degrees relative to the body of said clamp is a screw 4.

5 indicates the furnace-wall, 6 the retort, and 7 the retort-mouthpiece. This mouthpiece is usually of cast metal conforming in shape to the cross-sectional shape of the retort and is provided on its inner edge with a flange 8, that abuts against the end of the retort. Formed in the face of the retort adjacent its outer end at suitable intervals are notches or recesses 9, which receive the hooks or laterally-bent ends 2 of the clamps, the outer beveled ends of said clamps extending beyond the end of the retort. The clamps are held in position by the brickwork of the furnace-wall surrounding the end of the retort.

In the practical use of my clamps to hold the mouthpiece 7 to the retort 6 the clamps are put in position around the retort while the brickwork of the furnace-wall is being

laid with the retort located therein. The clamps are laid against the retort, with the hooks located in the notches or recesses 9 in the retort, and when so placed the beveled forward ends of the clamps extend beyond the outer end of the retort and also beyond the outer face of the furnace-wall. At this time the screws 4 may be positioned in the outer or forward ends of the clamps, or they may be inserted after the clamps are all in place. When the mouthpiece 7 is to be applied to the retort, the screws 4 are in receded position, so as to permit the application of the mouthpiece within the forward ends of the clamps and against the outer end of the retort. After the mouthpiece has been placed against the retort the screws are moved inwardly in the clamps, so as to bear against the flange 8 of the mouthpiece at an angle thereto and force said flange inwardly, carrying it tightly to the retort and producing a close joint between the parts.

I claim as my invention—

1. In a clamp for retort-mouthpieces, the combination of a body having a straight outer end, a hook at its inner end and a screw movably seated in its outer end at an angle thereto, substantially as described.

2. In a clamp for retort-mouthpieces, the combination of a body having a hook at its inner end, and having a straight beveled forward end, and a screw passing through said forward end at an angle to the body of the clamp, substantially as described.

3. In a clamp for retort-mouthpieces, the combination of a body having a hook at its inner end, and having a beveled forward end and a screw passing through said beveled portion perpendicular thereto, whereby said screw receives a firm seat in said body.

JOHN C. DODS.

In presence of—

E. S. KNIGHT,
N. V. ALEXANDER.