C. O. WESCOTT.

STUD SUPPORT.

APPLICATION FILED JULY 9, 1914.

1,167,234.

Patented Jan. 4, 1916.

Fig. 1.

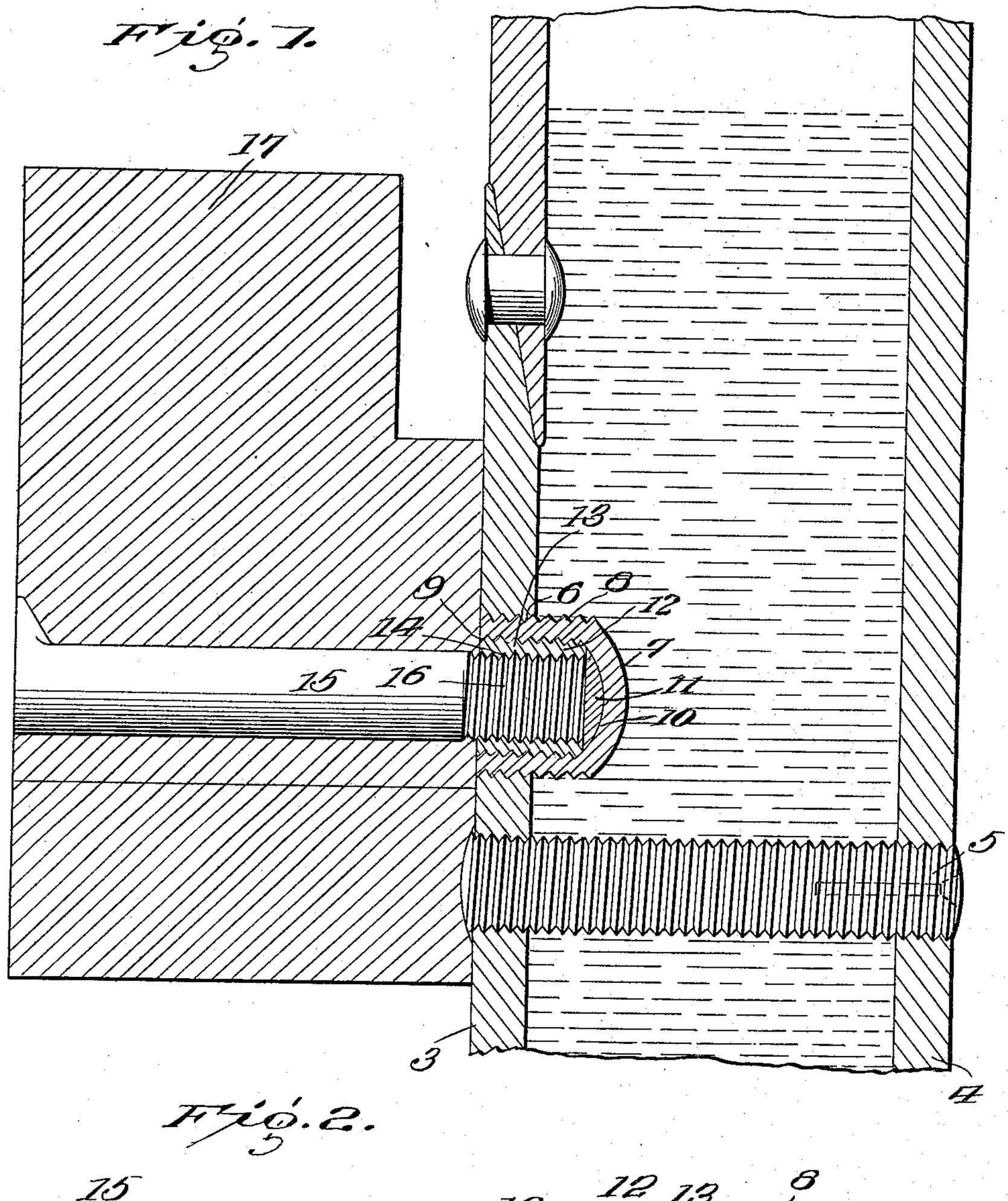
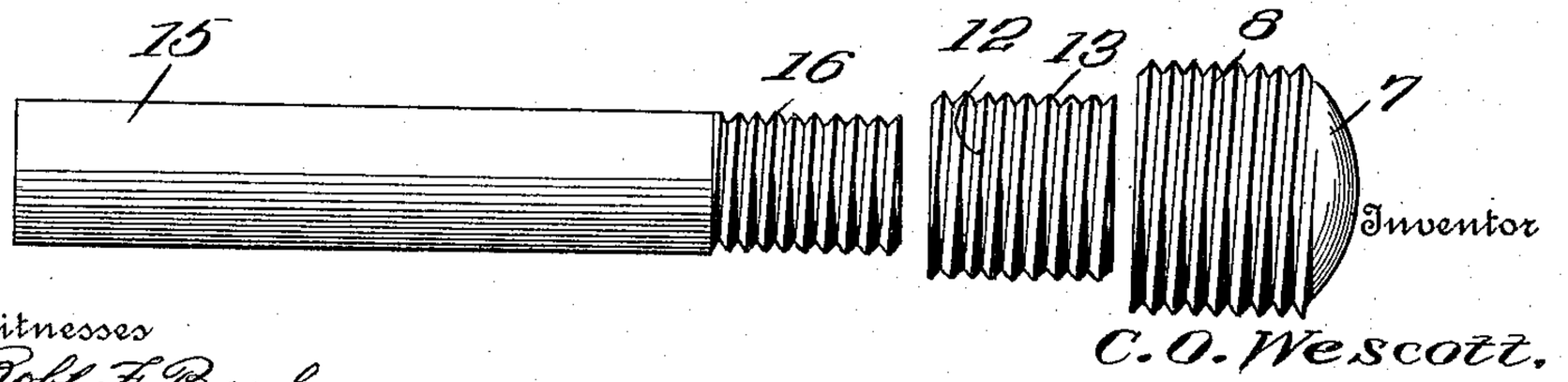


Fig. 2.



Witnesses

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STUD-SUPPORT.

1,167,234. Specification of Letters Patent. Patented Jan. 4, 1916.

Application filed July 9, 1914. Serial No. 850,058.

To all whom it may concern:

Be it known that I, CHARLES O. WESCOTT, citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Stud-Supports; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to means for securing the arch supporting stud used in fire boxes, and has for its primary object the provision of efficient means for supporting and retaining brick studs.

The object of this invention is to provide retaining means for a brick stud of the character set forth, which shall be so constructed as to facilitate the removal of the brick stud after the same has been burned out.

A further object of this invention is to provide a brick stud retaining means so constructed as to permit the removal of a burned out brick stud, while the boiler is under pressure.

A still further object of this invention is to provide a brick stud retaining means which shall be unaffected by heat and easy to install in a position upon the fire box wall.

With these and other objects in view, this invention consists in the peculiar combination and arrangement of the various parts of a brick stud retaining means as hereinafter described and more particularly set forth in the appended claims.

Referring to the drawings wherein similar reference characters indicate similar parts wherever used: Figure 1 is a section through a fire box wall showing the retaining means in place, and Fig. 2 is a detail side elevation of the brick stud and support parts shown in separated relation.

3 designates a fire box wall, and 4, the outside boiler wall, secured together in the usual manner by means of a stay bolt 5. The fire box wall 3 is provided with a threaded opening 6, into which is adapted to be inserted a screw threaded member 7, formed upon the outside with threads 8 and similarly threaded internally at 9, and provided with an internal concave end 10. Adapted to fit the concave portion 10 of the member 7, is a small brass or other suitable metal block 11. A second member 12 externally threaded at 13 and internally threaded at 14 and preferably made of brass or any other suitable heat resisting metal is then screwed into the member 7, the outside threads 13 of the member 12 engaging the internal threads 9 of the member 7 until stopped by the flat face of the block 11. An ordinary type of brick stud 15 provided with a threaded end 16 is then inserted within the member 12, the threaded end 16 of the stud 15 engaging the internal threads 14 of the member 12. The stud is then in position to support the fire-brick 17 in the usual manner.

Due to the construction above described, it will be seen that when the intense heat of the fire box has burned out the stud 15, it may be unscrewed from the member 12 without necessitating the removal of the member 7, which therefore enables the brick stud to be removed while the boiler is under pressure, the member 7 forming an effective closure for the opening in the fire box wall.

The member 12 being formed of brass or any other suitable heat resisting material, will retain under the most trying conditions its travel in the configuration and threaded area of the member 7 and will therefore, at all times, present a proper support for a brick stud, and will be effectively retained by the member 7.

I realize that considerable variation of the specific details of construction illustrated and described herein may be resorted to without departing from the spirit of my invention, and it is not my intention to limit myself to such construction as shown and described, but to construe the claims as broadly as the state of the prior art will permit.

What I claim as new and desire to secure by United States Letters Patent, is:—

1. A brick stud supporting means comprising a hollow member externally and internally threaded and adapted to be inserted in a fire box wall, a second cylindrical member externally and internally threaded, the external threads of which are adapted to engage the internal threads of said first mentioned member and the internal threads of which are adapted to receive the threaded ends of a brick supporting stud,

and a heat resisting metallic block forming a stop for the further insertion of said second member and said stud.

2. In a fire box, the combination with a fire box wall provided with a threaded opening therethrough, of a cylindrical member closed at its inner end and externally and internally threaded and adapted to engage the threaded opening in the fire box wall, a second cylindrical member externally and internally threaded, the external threads of which are adapted to engage the internal threads of said first mentioned member, a heat resisting metallic block in the closed end of said supporting member and adapted to form a stop for the further insertion of said second member, a stud having a threaded portion adapted to engage the internal threads of said second mentioned member whereby to support the stud.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES O. WESCOTT.

Witnesses:
B. F. JACOBS,
J. F. FITCH.