No. 626,583. Patented June 6, 1899.

# A. P. WHITTEMORE.

## STUDDING FOR FIREPROOF WALLS.

(Application filed Aug. 2, 1898.)

(No Model.)

Fig. I.

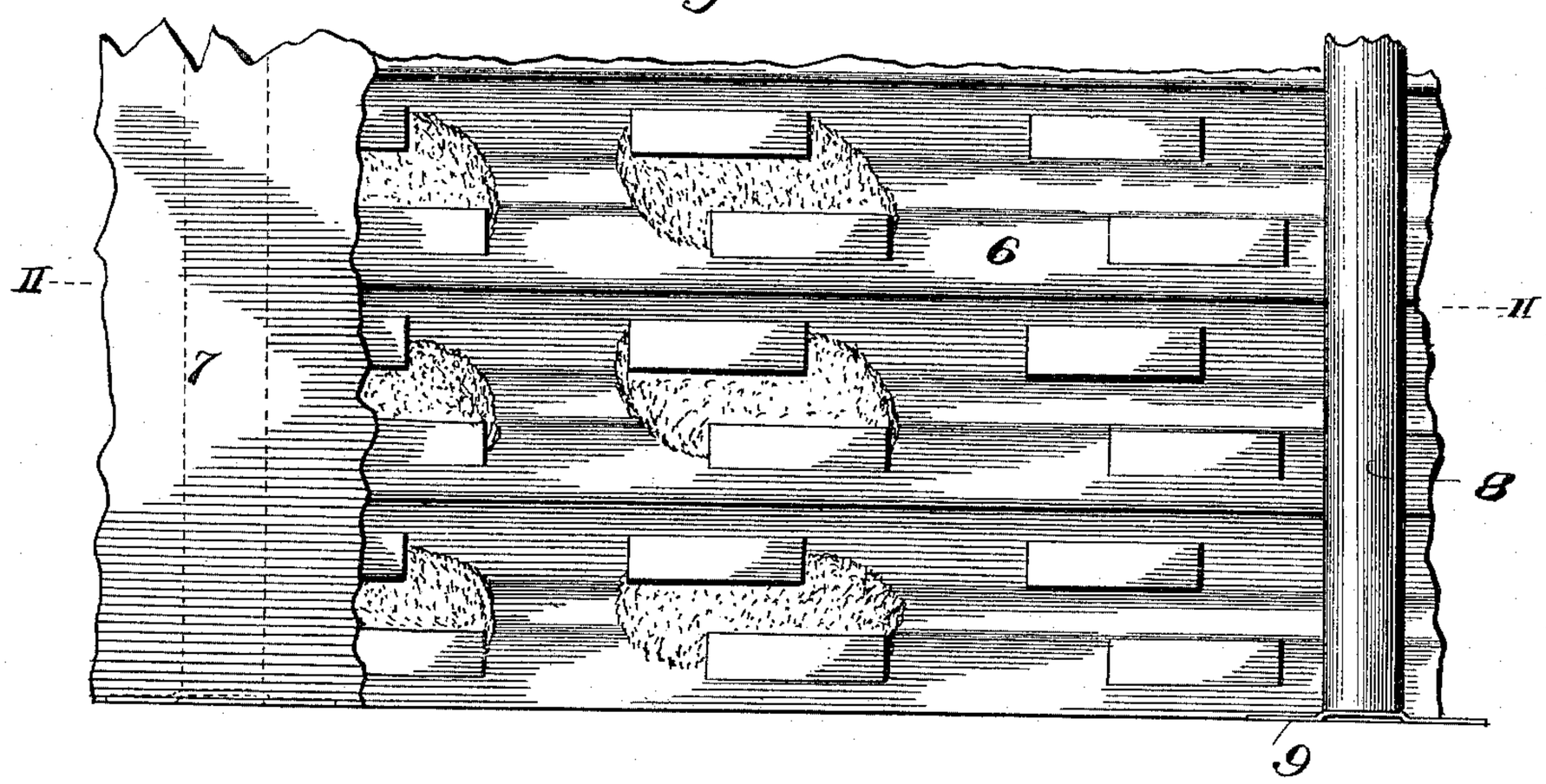



Fig. II.

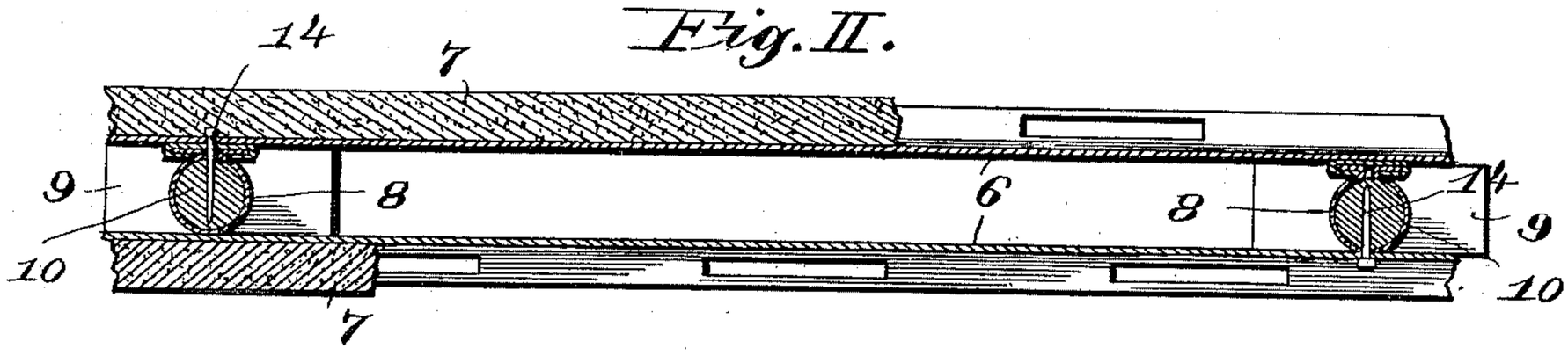



Fig. III.

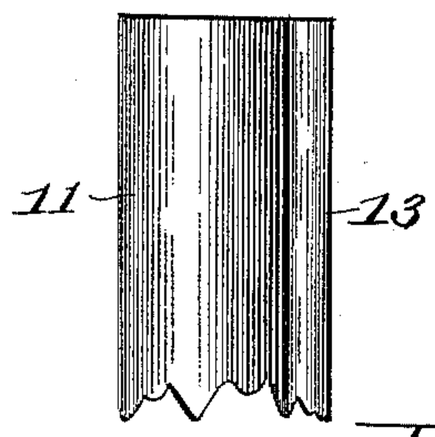



Fig. IV.

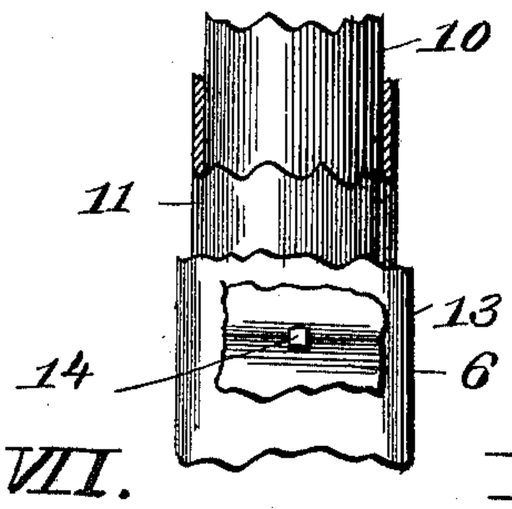



Fig. V.

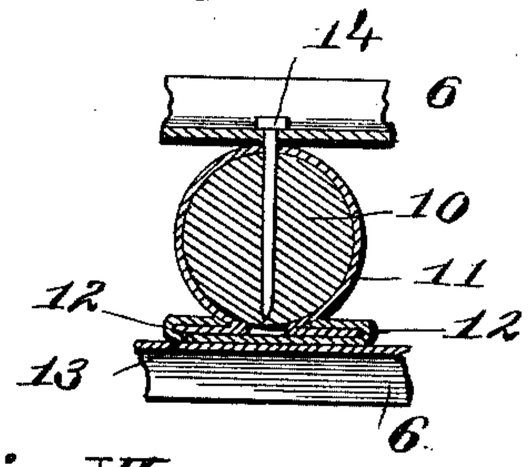



Fig. VII.

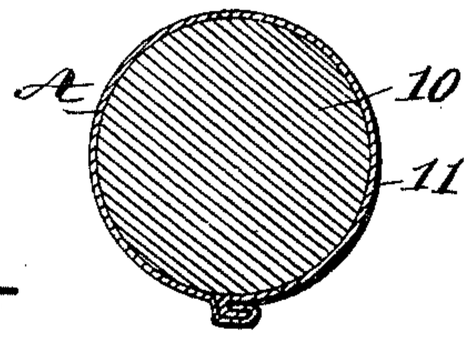
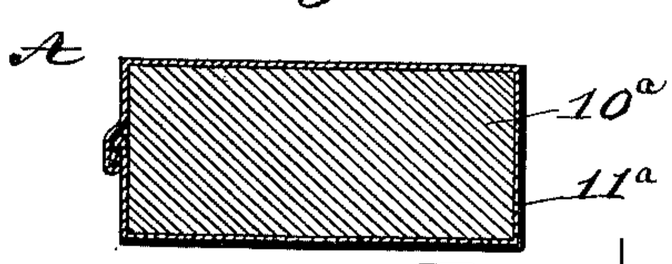



Fig. VI.




Witnesses.

D. A. Rauberschmidt,
E. C. Knight

Inventor.

Allan P. Whittemore
By Wright Brothers
Attorneys

# UNITED STATES PATENT OFFICE.

ALLAN P. WHITTEMORE, OF WEBSTER GROVES, MISSOURI.

## STUDDING FOR FIREPROOF WALLS.

SPECIFICATION forming part of Letters Patent No. 626,583, dated June 6, 1899.

Application filed August 2, 1898. Serial No. 687,484. (No model.)

*To all whom it may concern:*

Be it known that I, ALLAN P. WHITTEMORE, a citizen of the United States, residing at Webster Groves, St. Louis county, in the State of Missouri, have invented a certain new and useful Improvement in Studding for Fireproof Walls, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to an improvement in non-combustible studding for partition-walls; and the invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a face view of a portion of a fireproof wall in which my studding is used. Fig. II is a cross-sectional view taken on the line II II, Fig. I. Fig. III is a side view of one end of one of the studs. Fig. IV is a face view of a fragment of one of the studs, portions being broken away to show the parts beyond the surface. Fig. V is a cross-sectional view taken through one of the studs and through fragments of metallic lathing applied thereto. Figs. VI and VII are cross-sectional views of modified forms of the studding.

In Figs. I and II, I have shown portions of my improved studding with metallic lathing applied thereto and portions of the lathing covered with plaster in order to illustrate the type of wall in which the studding is designed to be employed. The lathing used may be of any common construction, as no invention is herein claimed on it.

6 designates the lathing, and 7 the plastering applied thereto. (See Figs. I and II.)

8 designates the studs, which are supplied with short bars 9, attached to the ends of the studs for the purpose of securing them to the floor and ceiling to maintain them in position. Each stud has a core 10, (see Figs. II, IV, and V,) the core being inclosed within a casing 11. The casing 11 extends around the core 10, and its ends are bent outwardly to form tongues 12, (see Fig. V,) that are engaged by the inturned ends of a metallic or other suitable strip 13, that extends from end to end of the stud. The core 10 is of wood and the casing 11 is of metal. The lathing is designed to be secured to the studding by nails 14 or other suitable fastening devices driven through the lathing and into the studding, as is clearly shown in Fig. V. In the use of this article the lathing is designed to be applied on one side only or on opposite sides of the studding, as clearly shown in Fig. II, and the plastering is then accomplished against the lathing, as is also seen illustrated in Fig. II.

In Fig. VI, I have shown a core $10^a$, having straight sides inclosed within a casing $11^a$ and having the edges of the casing joined by a fold.

In Fig. VII, I have shown a core circular in cross-section inclosed within a casing of corresponding shape, the casing having its edges folded in a similar manner to that of the form shown in Fig. VI.

With the use of the studding herein described in connection with metallic lathing an incombustible wall may be constructed, as all of the parts exposed are of non-combustible material, the wooden core of the studding being completely incased within the casing thereof. A wall so constructed may also be of greatly-reduced thickness.

I claim as my invention—

1. A fireproof stud having a core, a casing arranged to inclose said core, and end bars applied to said stud to provide for its support, substantially as described.

2. In a fireproof studding, the combination of a core, a casing arranged to inclose said core, and having its edges bent outwardly, and a strip applied to said casing having its edges bent inwardly to engage the edges of said casing, substantially as described.

3. In a fireproof stud, the combination of a core, a casing arranged to inclose said core and having its edges bent outwardly, a strip applied to said casing having its edges bent inwardly to engage the edges of said casing, and bars applied to the ends of said stud, substantially as described.

A. P. WHITTEMORE.

In presence of—
E. S. KNIGHT,
N. V. ALEXANDER.