

No. 679,460.

Patented July 30, 1901.

W. KENNEDY.  
ROOF FOR BOILERS.

(Application filed Nov. 14, 1900.)

(No Model.)

3 Sheets—Sheet 1.

FIG. 1.

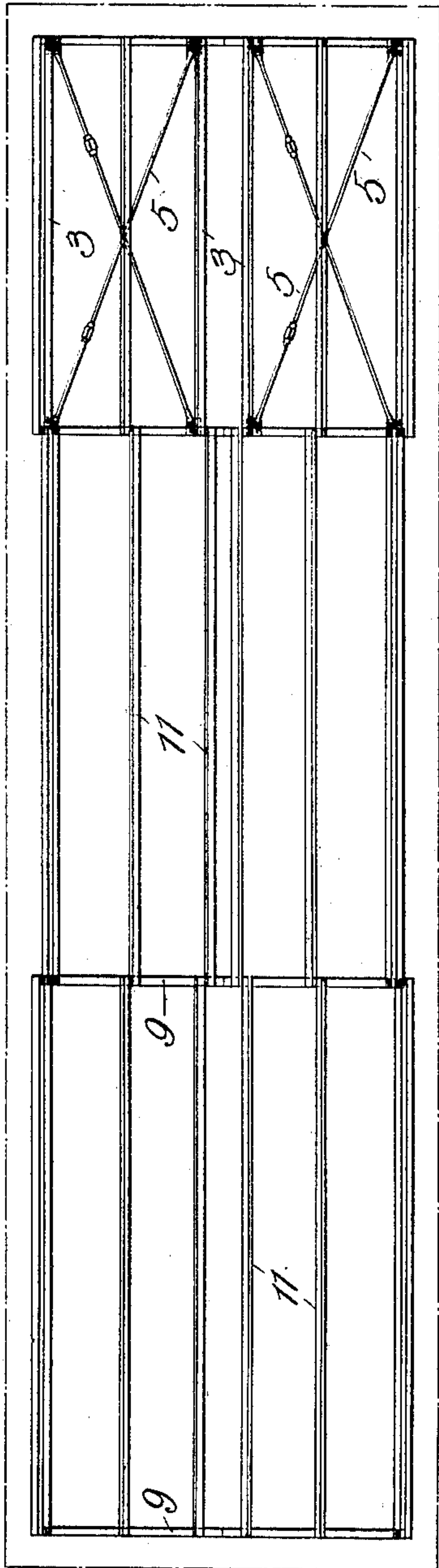
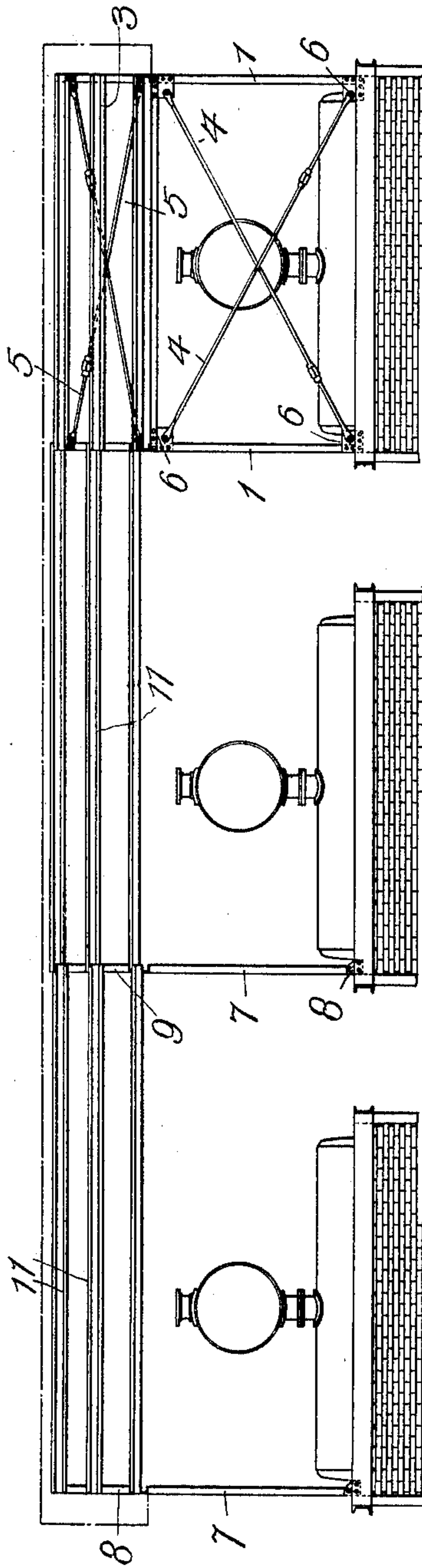


FIG. 2.



WITNESSES:

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INVENTOR

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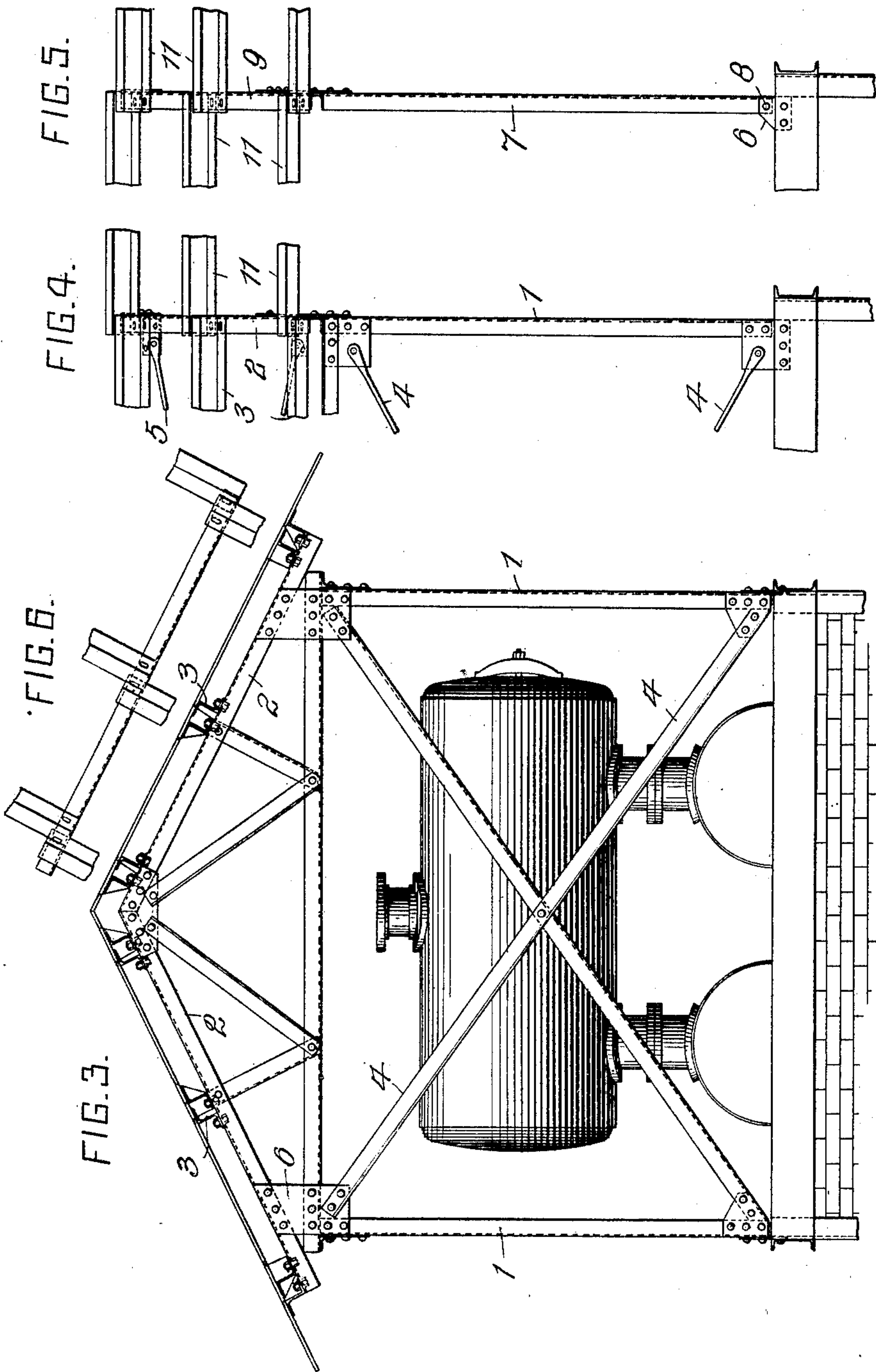
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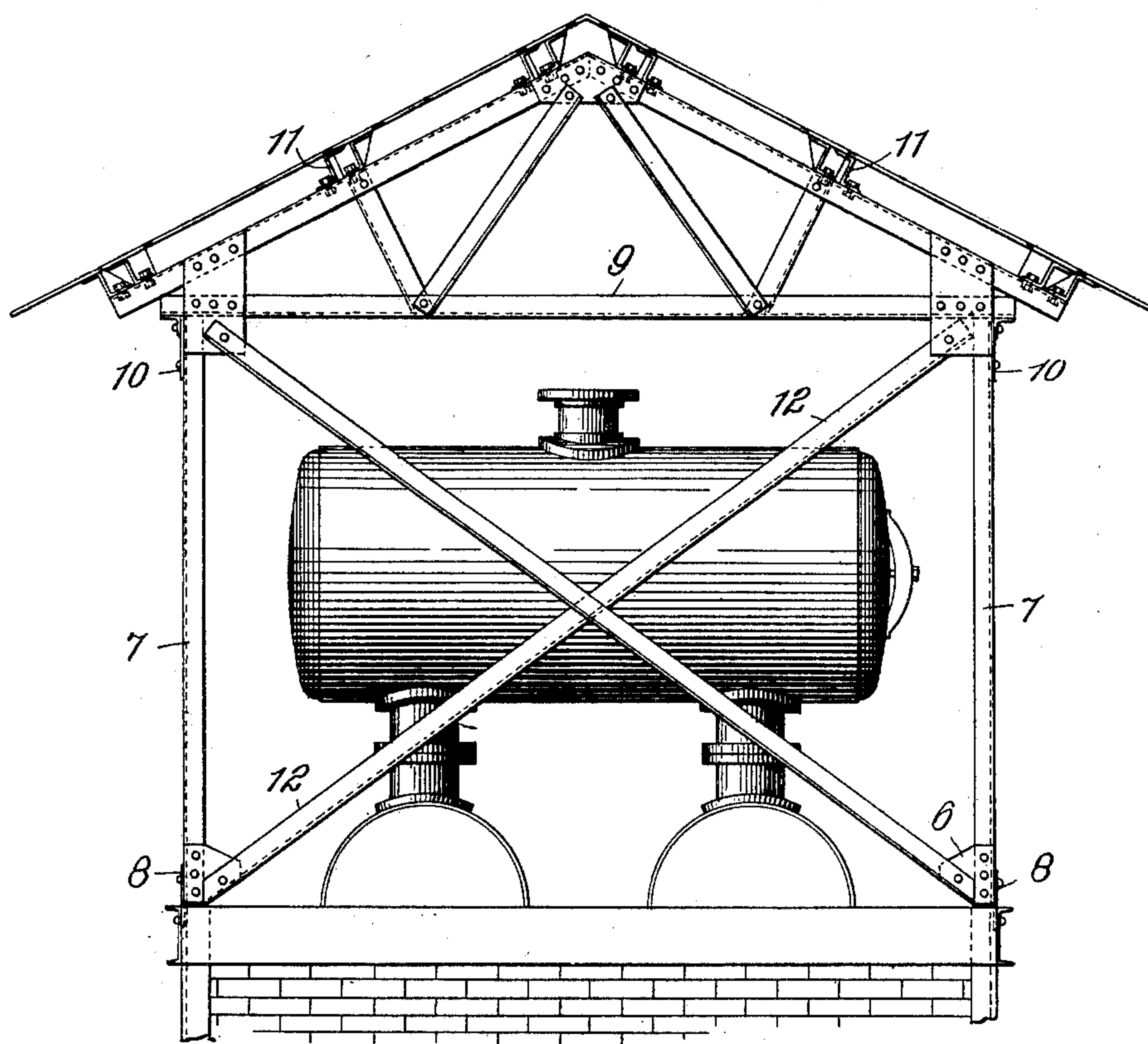
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FIG. 7.



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# UNITED STATES PATENT OFFICE.

WALTER KENNEDY, OF ALLEGHENY, PENNSYLVANIA.

## ROOF FOR BOILERS.

SPECIFICATION forming part of Letters Patent No. 679,460, dated July 30, 1901.

Application filed November 14, 1900. Serial No. 36,498. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER KENNEDY, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented or discovered certain new and useful Improvements in Roofs for Boilers, of which improvements the following is a specification.

To protect boilers which are not located in a building, it is the practice to arrange a roof over them, and in order to avoid the expense of separate foundations for the supports for such roof it is proposed to attach such supports to the boiler or the casing thereof. The boiler and casing frequently shift their positions when in use. Hence it is evident that such a roof if made rigid and rigidly attached to a battery of two or more boilers would be subjected to severe strains, as the movements of the individual members forming the battery are seldom the same or in the same direction.

The object of the present invention is to provide a roof one of the sections of which shall be rigid and rigidly attached to one of the members of the battery, so as to serve as an anchor for the other sections, which are flexibly connected to the anchoring-sections and to the member of the battery covered by each.

The invention is hereinafter more fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a top plan view of my improved roof. Fig. 2 is a side elevation of the same, showing the upper portion of the boilers protected by the roof. Fig. 3 is an end elevation of the rigid or anchor member of the roof. Figs. 4, 5, and 6 are detail views of parts of the flexible members or sections. Fig. 7 is an end elevation of one of the flexible members or sections of the roof.

In the practice of my invention I secure to the upper portion of one of the boilers of the battery, or, preferably, the casing thereof, four posts or standards 1, which have their ends rigidly secured to the boiler-casing. To the upper ends of these posts or uprights are rigidly secured the several roof-trusses, which may be of any desired form or construction. The rafters of the truss of this anchor or rigid

section are connected by purlins 3, rigidly bolted or riveted to the rafters 2. In order to render this section more rigid and firm, the posts are secured together by means of diagonal braces 4, and the roof-trusses are similarly braced by diagonal rods 5, as shown in Figs. 1, 2, and 3.

It is preferred that the ends of the side braces 4 should be double-riveted to plates 6 at the corners of the structure and that the braces where they cross each other should be riveted together. This construction will render what I term the "anchor-section" quite rigid and its connection to the boiler-casing which it covers also rigid, so that the roof structure will partake of the movements of the boiler-casing.

The flexible sections consist of posts or uprights 7, two extending from each boiler-casing, as shown in Fig. 2, and having their lower ends pivotally connected to such boiler-casing, as clearly shown in Fig. 5, where a single rivet or bolt 8 serves to connect these posts or uprights with the plate 6, which is riveted to the boiler-casing. To the upper ends of these posts 7 are pivotally secured the roof-trusses 9, the connection between the posts and trusses being preferably formed by a single rivet or bolt 10, as shown in Fig. 7. The purlins 11, connecting the roof-trusses 9 to the trusses of the anchor-section and of the adjacent flexible sections, are attached thereto in such manner as will permit the movement of the trusses 9 independent of each other and of the anchor member or section of the roof. Such connection is conveniently formed, as shown in Figs. 4 and 6, by slotting the ends of the purlins and connecting them to the rafters of the roof by a single rivet or bolt. The posts 7 of each flexible section are laterally braced by diagonal braces 12, which have their ends connected by a single rivet or bolt to the corner-plates 6 of such section, so as not to interfere with the movements of the posts while holding them in proper relative positions.

As will be readily understood from the foregoing, the roof-sections covering boilers of the battery other than that having the rigid section can partake of the movements of the boiler-casings to which they are connected without any undue strain either to them-

selves or to the anchor member and that the roof structure as a whole is prevented from falling by the rigid or anchor section.

I claim herein as my invention—

5 1. The combination of a battery of two or more boilers, a roof formed of two or more sections covering said battery, one of said roof-sections rigidly secured to one of the boilers or casing thereof and forming an  
10 anchor-section and the other section or sections being loosely connected to the other boiler or boilers or casings thereof, and loosely connected to the anchor-section, substantially as set forth.

15 2. The combination of a battery of two or more boilers, posts rigidly connected to one of the boilers or casing thereof, a roof supported by and secured to said posts, posts

loosely connected to the other boiler or boilers or casings thereof, roofs supported by and 20 loosely connected to said posts and loosely connected to the anchor-section, substantially as set forth.

3. The combination of one or more boilers, roof-sections loosely supported on said boiler 25 or boilers or the casings thereof, and an anchor for holding said section or sections over the boiler, or boilers, substantially as set forth.

In testimony whereof I have hereunto set 30 my hand.

WALTER KENNEDY.

Witnesses:

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F. E. GAITHER.