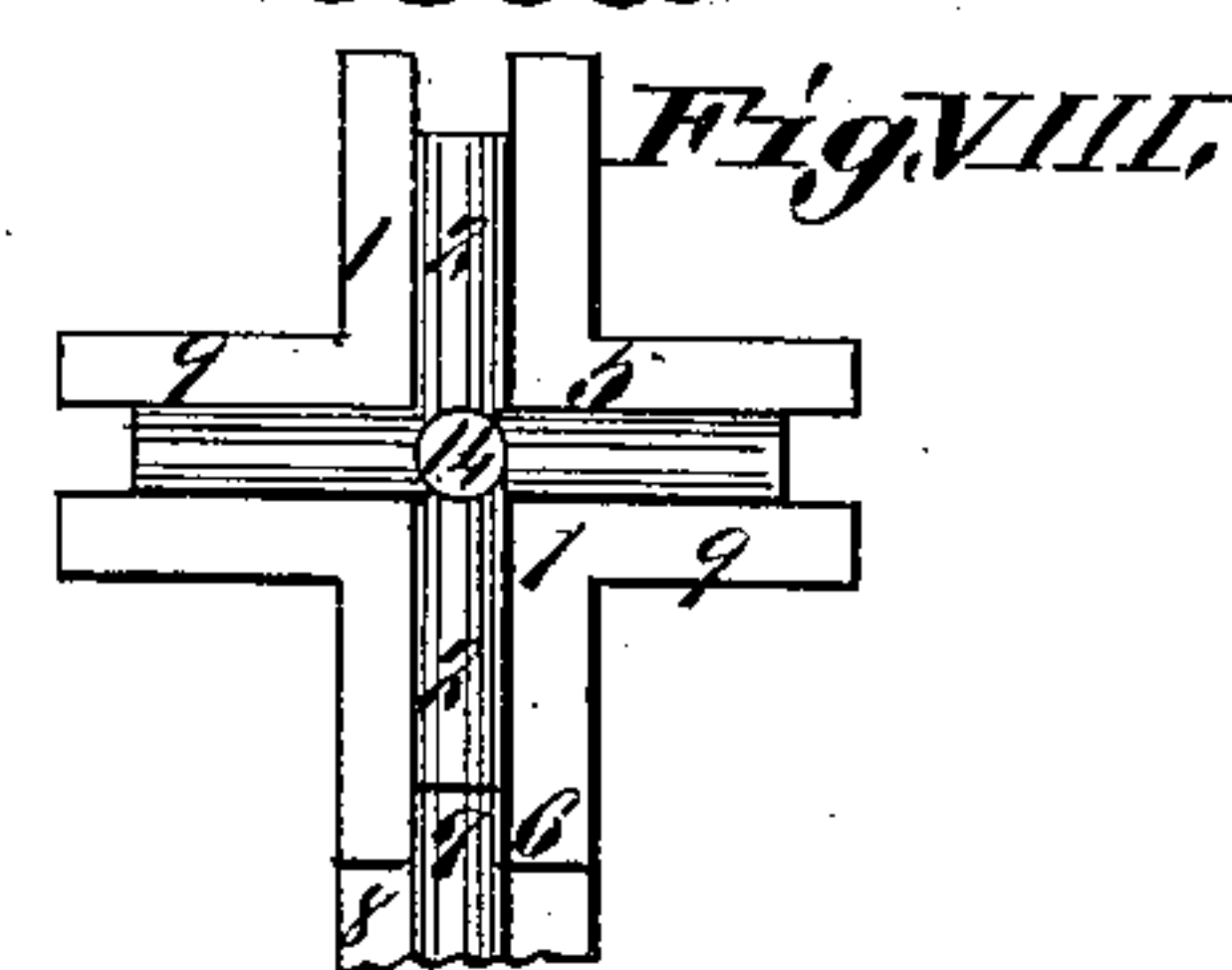
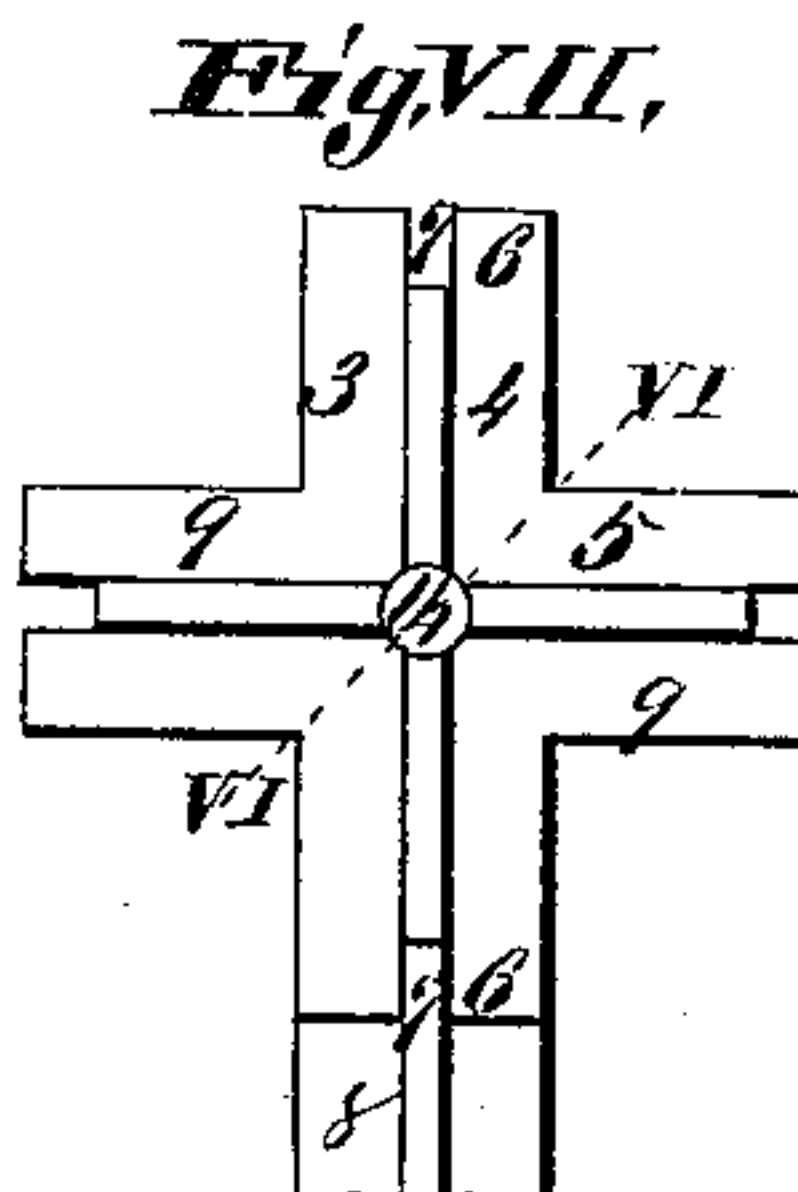
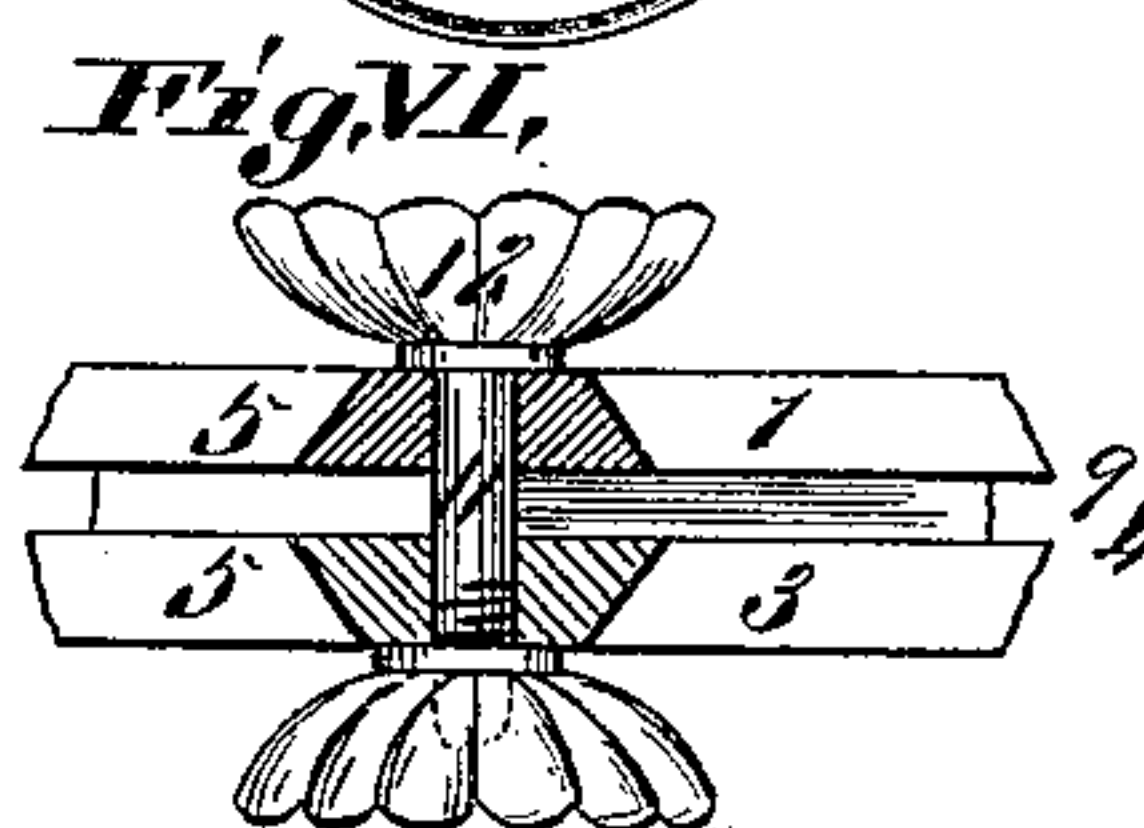
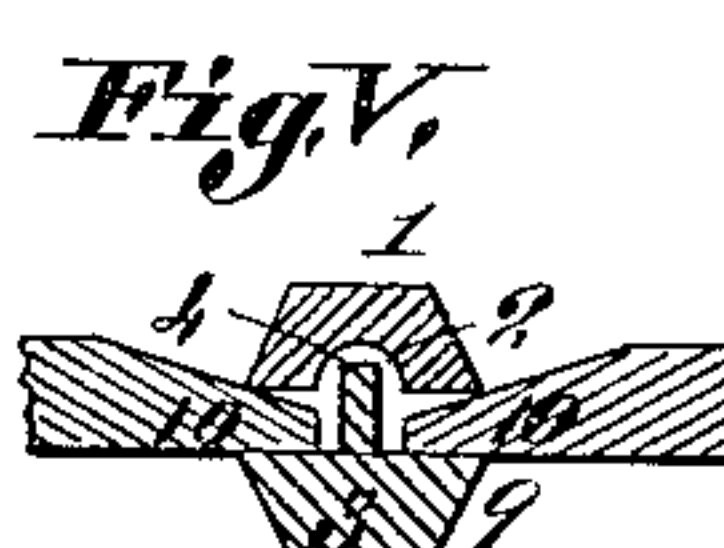
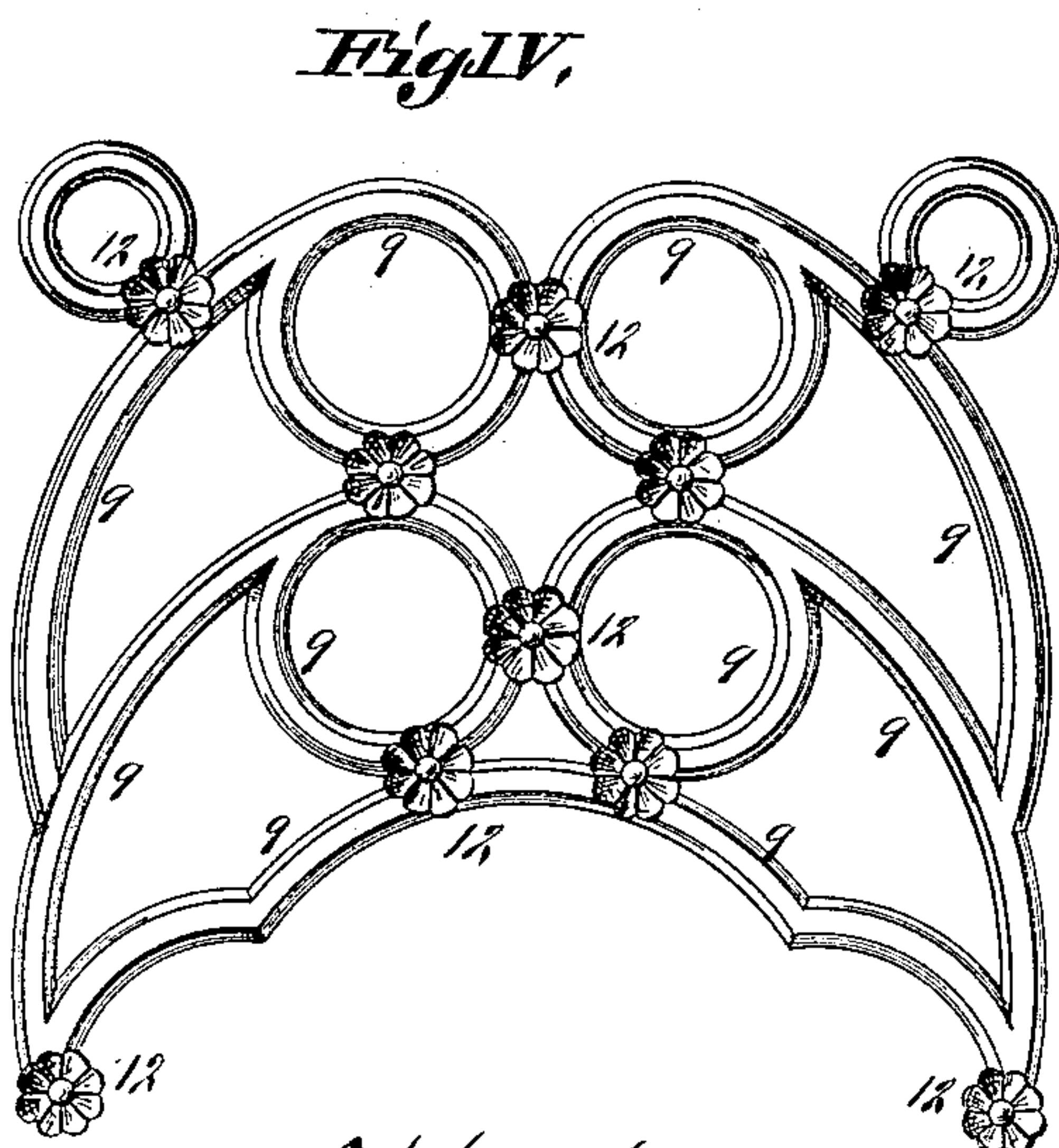
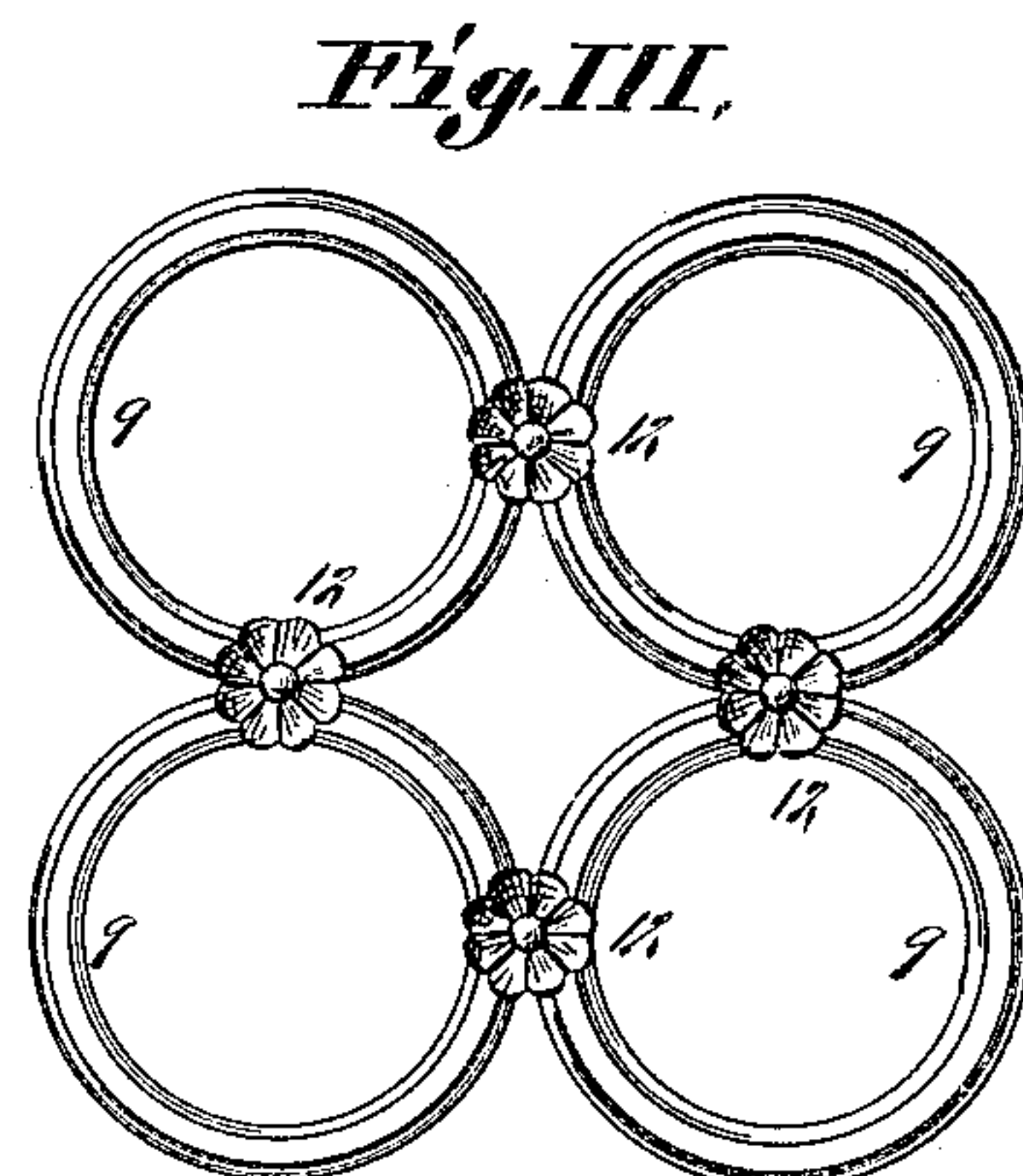
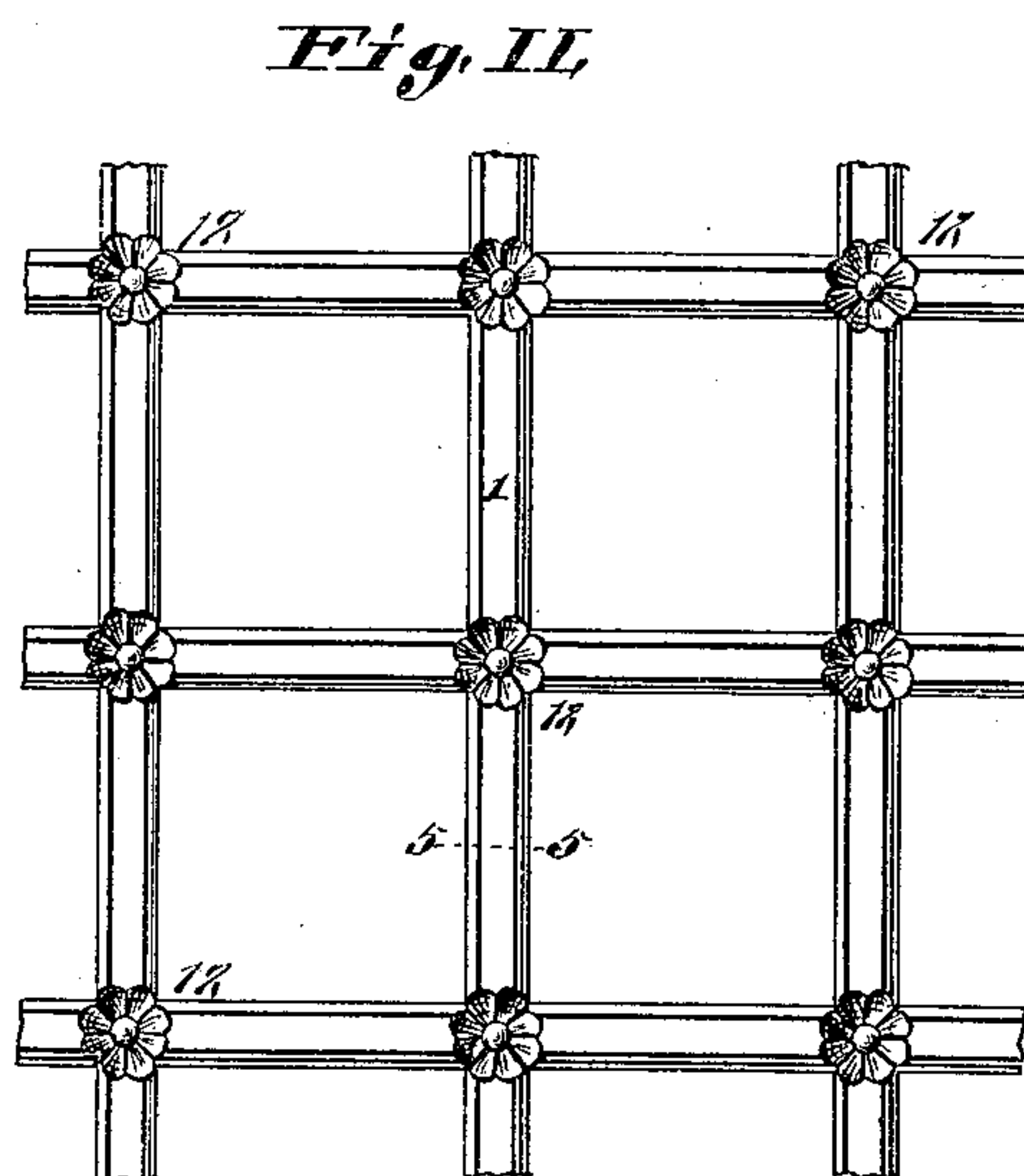
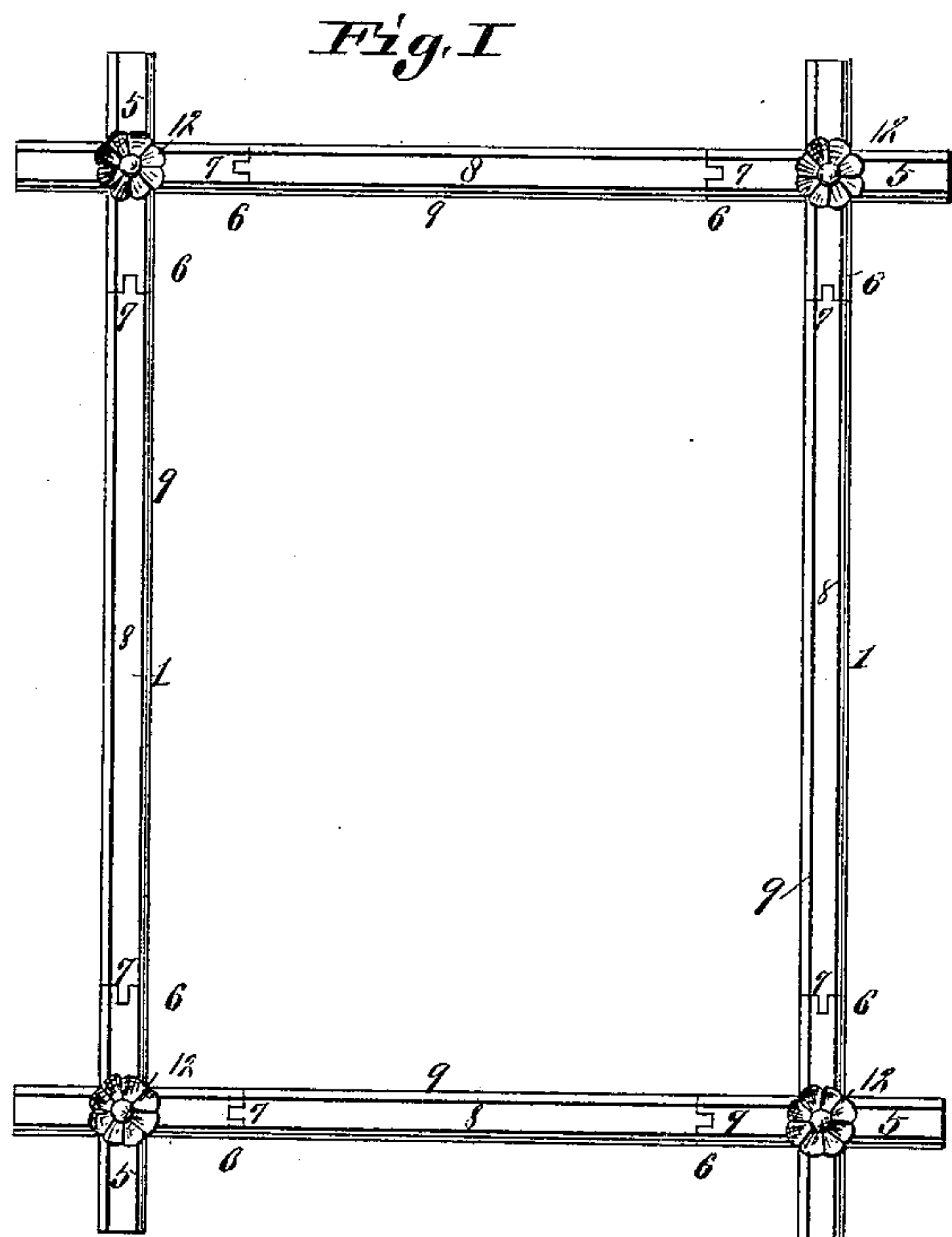


(No Model.)

R. G. BOREHAM.
ORNAMENTAL METAL FRAME.

No. 377,231.

Patented Jan. 31, 1888.



Attest:
Charles Pickles
Emma Arthur.

Inventor:
Robert G. Boreham
By *Knights Bros.*
Attys.

UNITED STATES PATENT OFFICE.

ROBERT G. BOREHAM, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-THIRD
TO HENRY KALTENBACH, OF SAME PLACE.

ORNAMENTAL METAL FRAME.

SPECIFICATION forming part of Letters Patent No. 377,231, dated January 31, 1888.

Application filed July 7, 1887. Serial No. 243,658. (No model.)

To all whom it may concern:

Be it known that I, ROBERT G. BOREHAM, of the city of St. Louis, in the State of Missouri, have invented certain new and useful
5 Improvements in Ornamental Metal Frames for Glass, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

10 Figure I is a view of my frame in elevation, showing the cross corner sections of either the front or back sections cast integral and the intermediate tie-sections spliced and brazed thereto. It also shows the set-screw rosettes
15 that secure the front and rear frames together. Fig. II is an elevation of a modification showing the sash divided into compartments, the front and rear sections, which in all the figures are duplicated, (except as to their tongue-and-groove match-joints,) each cast integral with-
20 out tie-sections. Fig. III is a like view of a modification showing a circular conformation in which the rings comprising the front or rear section may be either cast integral or brazed
25 together. It also shows the set-screw rosettes securing the sections of the frame together at the points of junction of the rings. Fig. IV is also a like view of a modification showing a more complex conformation and the means of
30 securing the sections together. Fig. V is an enlarged section taken on line V V, Fig. II, showing the front and rear frame with their tongue-and-groove match-joints and co-operatively clamping the bevel-edges of the adja-
35 cent glass. Fig. VI is an enlarged section taken on line VI VI, Fig. VII, showing the match-frames and the set screw rosettes that attach them. Fig. VII is a plan view of the tongue-section of the frame, and Fig. VIII is
40 a plan view of the groove-section of the frame.

My invention relates to devices for securing glass, pictures, &c., in ornamental metal frames; and the invention consists in features of novelty hereinafter fully described, and
45 pointed out in the claims.

Referring to the drawings, in which figures of reference indicate like parts in all the views, 1 represents a front section of the frame provided with matching grooves 2. The rear section, 3, of said frame has tongues 4, that match
50 in the grooves 2.

Cross corner sections, 5, each relatively for the front or back sections, are preferably cast in one piece, and are provided on their inner corners with slotted seats 6, in which the
55 tongues 7 of the intermediate tie-sections, 8, engage. The said splices of the tie-sections to the cross corner sections are brazed, so as to rigidly secure the parts together. The matching tongues 4 are deeper than the depths of
60 the grooves 2, so that the shoulders 9 on the front and rear sections of the frame are held apart for the insertion of the bevel-edges of the glass, 10.

11 represents set-screws with a rosette-head, 65 12, and rosette or decorative thumb-screw 13, the stems of which set-screws pass through perforations 14 in the front and rear sections of the frames at the cross-corners or at other
70 connecting-points, and when the glass has been inserted in its seat (see Fig. V) and the decorative thumb-screw is screwed to its seat both sections of the frame and glass are held securely together.

Although it is preferable, when large frames 75 are constructed with cross corner sections, that said corner sections should be cast separate and connected with intermediate tie-sections, as described, yet when the frames are constructed with manifold intersections and compartments, 80
as in Fig. II, or with a circular or varied conformation of its parts, as in Figs. III and IV, it is then preferable to cast the front and rear sections of the frame each integral in one piece.

When the frame is made in a number of com- 85 partments with straight bars, as in Fig. II, I prefer to connect the front and rear sections, as in Fig. I, by the attachment of the decorative set-screw at their cross-junctions, as in Figs. I and II; but when, as in Fig. III, the
90 said sections are of a circular form, or, as in Fig. IV, they are of varied conformation, but not with cross-junctions, as in Figs. I and II, I then prefer to connect the front and rear sections with the same decorative set-screw at
95 their points of connection, as shown in Figs. III and IV.

I do not confine myself to the decorations or to their points of attachment as here shown, for it is evident that wreaths and many other
100 ornamental devices can also be secured to the frames by the said set-screws that unite the two

sections of the frame; also, the same decorative set-screws can be attached at other points besides the cross-junctions and the points of connection, especially in large frames, to strengthen the connection, and with highly-ornamented frames to add to their beauty.

As shown in Fig. V, it is seen the flanges or shoulders of the corresponding sections of the frame clamp down on and firmly hold the edges of the glass, and when secured by the decorative set-screws (see Fig. VI) it makes a strong and ornamental device, without the use of putty or other tedious and inornate devices. The front and rear cross corner sections are each, as in Fig. I, cast integral in one piece and make a much more solid frame than with individual bars crossing each other, and, the corners being solid, a firm support is provided for the support of the glass where it is most needed.

The frame, besides being an ornamental embellishment, provides a quick and efficient means for securing the glass, and should the glass break there is much time and trouble saved, not having to remove the hardened putty and replace the same.

I have described the frame especially as to its uses for holding glass, which may be beveled or otherwise, stained, leaded, or any other glass; but I do not confine myself to a frame for that purpose only, for it is well adapted for holding pictures, &c.

I make my frames preferably of brass; but they may be made of any other suitable material.

I claim as my invention—

1. In an ornamental metal frame, the combination of the cross corner sections, 5, cast integral in one piece, the intermediate tie-sections, 8, with tongues 7, that match into slots 6 in the inner arms of said cross corner sections, the matching tongues 4, and corresponding grooves 2, of the rear and front sections, and the decorative set-screws with rosette thumb-screws 13, that secure the front and rear sections together, substantially as described, and for the purpose set forth.

2. In an ornamental metal frame, the combination of the front and rear sections of the frame with matching tongues and grooves that are arranged to limit the approach of the front and rear sections of said frame to provide a seat for the edges of the inclosed glass, and the decorative nut that secures the sections of the frame together and clamps the glass within the frame, substantially as described, and for the purpose set forth.

3. In an ornamental metal frame, the combination of the front and rear sections of the frame, and the match-tongue connections that are arranged to provide a clamping-seat for the glass, and the decorative set-screw connection of the frame-sections to their connecting-points, substantially as described, and for the purpose set forth.

ROBERT G. BOREHAM.

In presence of—

BENJN. A. KNIGHT,
JOS. WAHLE.